CDX-GT07/CXS-GT07HP

SERVICE MANUAL

US Model

Ver. 1.0 2007.07

- CXS-GT07HP is composed of CDX-GT07, 2 way speaker, 3 way speaker.

- The tuner and CD sections have no adjustments.

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
22 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

Model Name Using Similar Mechanism	CDX-GT21W/GT210
CD Drive Mechanism Type	MG-101TC-188//C
Optical Pick-up Name	DAX-25A

SPECIFICATIONS

CD player section

Signal-to-noise ratio	95 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms)

General

Output	Power antenna relay control terminal
Inputs	Antenna input terminal AUX input jack (stereo mini jack)
Tone controls	Low: ±10 dB at 100 Hz High: ±10 dB at 10 kHz
Loudness	+9 dB at 100 Hz +5 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 179 mm (7 1/8 × 2 × 7 1/8 in.) (w/h/d)
Mounting dimensions	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.2 kg (2 lb. 11 oz.)
Supplied accessories	Parts for installation and connections (1 set) Card remote commander: RM-X151 Connecting cord

– Continued on next page –

FM/AM COMPACT DISC PLAYER

9-887-787-01
2007G04-1
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Sony Corporation
eVehicle Division
Published by Sony Techno Create Corporation

SONY®

6 × 9 Speaker (3-way Speaker)

Speaker	Coaxial 3-way: Woofer 16 × 24 cm (6 3/8 × 9 1/2 in), cone type Midrange 5.5 cm (2 1/4 in), cone type Tweeter 1.4 cm (9/16 in), balanced dome type
Peak power	300 W
Rated power	60 W
Impedance	4 Ω
Sensitivity	93 dB/W/m
Frequency response	27 – 30,000 Hz
Mass	Approx. 1,150 g (2 lb 9 oz) per speaker
Supplied accessory	Parts for installation

6 1/2 Speaker (2-way Speaker)

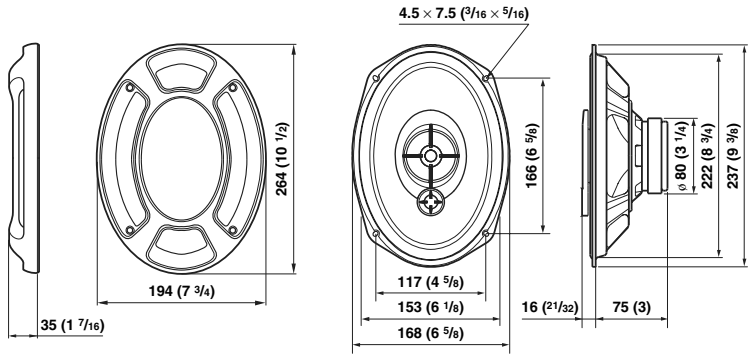
Speaker	Coaxial 2-way: Woofer 16 cm (6 3/8 in), HOP, cone type Tweeter 4 cm (1 5/8 in), Al, cone type
Peak power	190 W
Rated power	40 W
Impedance	4 Ω
Sensitivity	90 dB/W/m
Frequency response	35 – 22,000 Hz
Mass	Approx. 560 g (1 lb 4 oz) per speaker
Supplied accessory	Parts for installation

Design and specifications are subject to change without notice.

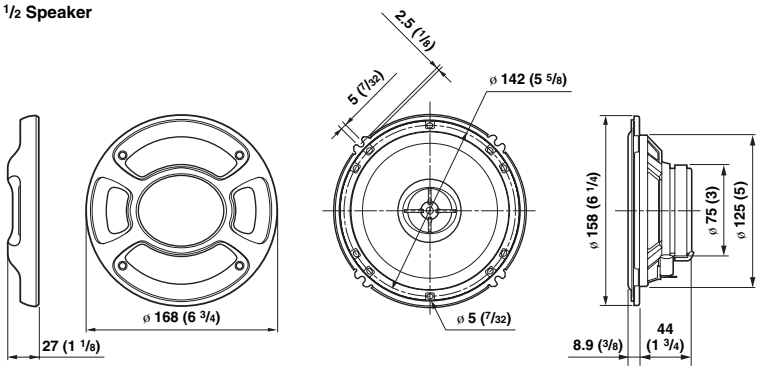
Dimensions

Unit: mm (in)

6 × 9 Speaker



6 1/2 Speaker



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

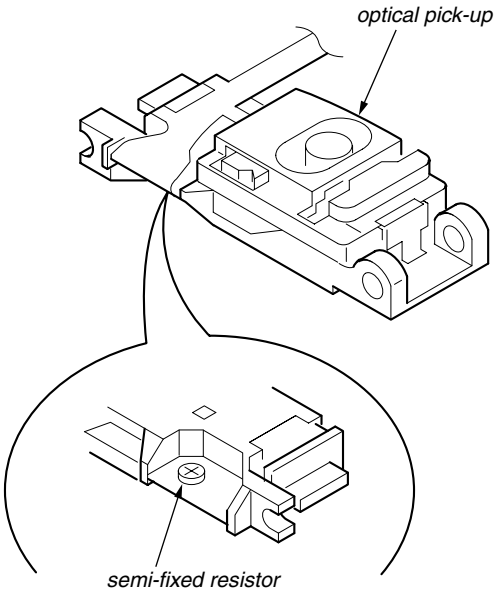
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.
Never turn the semi-fixed resistor located at the side of optical pick-up block.



Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

TEST DISCS

Please use the following test discs for the check on the CD section.

YDES-18 (Part No. 3-702-101-01)
PATD-012 (Part No. 4-225-203-01)

- **CD Playback**
  You can play CD-DA (also containing CD TEXT) and CD-R/CD-RW (MP3/WMA files also containing Multi Session).

Type of discs	Label on the disc
CD-DA	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable
MP3 WMA	COMPACT disc DIGITAL AUDIO Recordable COMPACT disc DIGITAL AUDIO ReWritable COMPACT disc Recordable COMPACT disc ReWritable

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 ˚C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 ˚C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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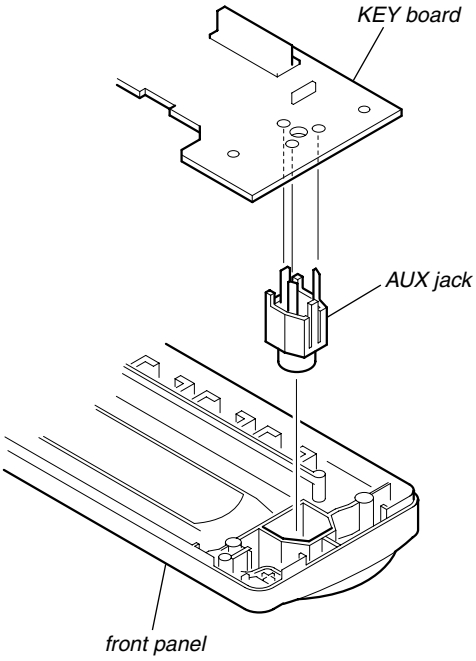
SECTION 1
SERVICING NOTES

NOTE FOR REPLACEMENT OF THE AUX JACK (J901)

To replace the AUX jack requires alignment.

1. Insert the AUX jack into the KEY board.
2. Place the KEY board on the front panel.
3. Solder the three terminals of the jack.



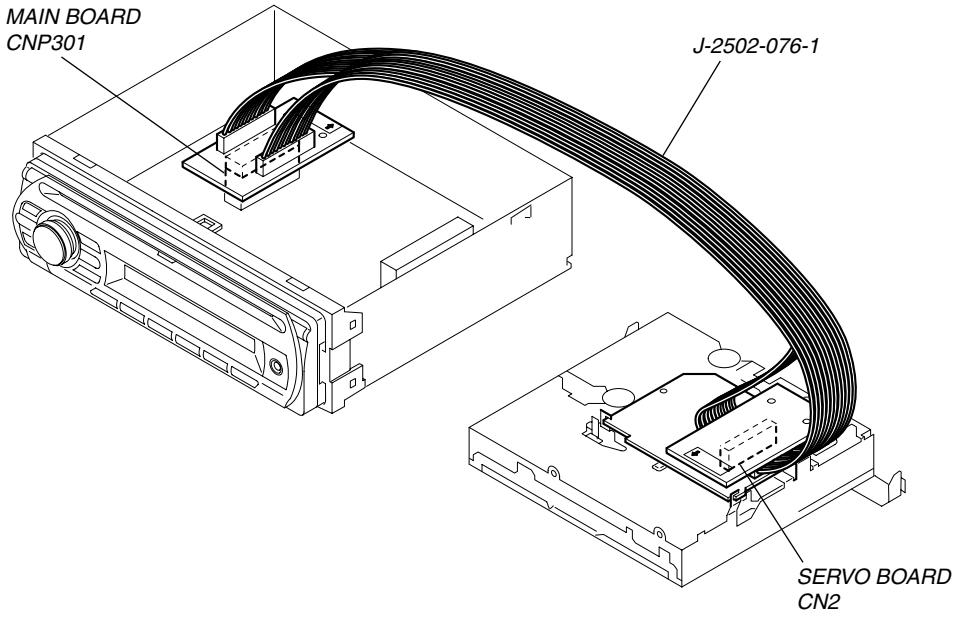
NOTE FOR REPLACEMENT OF THE SERVO BOARD

When repairing, the complete SERVO board (A-1201-631-A) should be replaced since any parts in the SERVO board cannot be repaired.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CNP301) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).

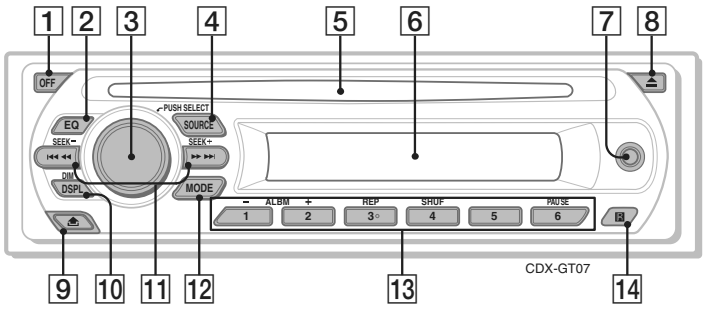


SECTION 2
GENERAL

This section is extracted from instruction manual.

Location of controls and basic operations

Main unit



The corresponding buttons on the card remote commander control the same functions as those on the unit.

1 **OFF button**
To power off; stop the source.

2 **EQ (equalizer) button**
To select an equalizer type (XPLOD, NATURAL, HARD, UPBEAT, VOCAL, CUSTOM or OFF).

3 **Volume control dial/select button**
To adjust volume (rotate); select setup items (press and rotate).

4 **SOURCE button**
To power on; change the source (Radio/CD/AUX).

5 **Disc slot**
To insert the disc (label side up). Playback starts automatically.

6 **Display window**

7 **AUX input jack**
To connect a portable audio device.

8 **⏏ (eject) button**
To eject the disc.

9 **(front panel release) button**

10 **DSPL (display)/DIM (dimmer) button**
To change display items (press); change the display brightness (press and hold).

11 **SEEK –/+ buttons**
CD:
To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast-forward a track (press and hold).
Radio:
To tune in stations automatically (press); find a station manually (press and hold).

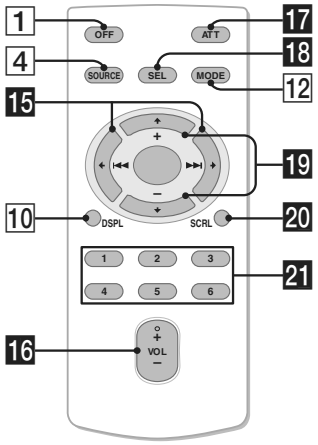
12 **MODE button**
To select the radio band (FM/AM).

13 **Number buttons**
CD:
①/②: **ALBM –/+***
To skip albums (press); skip albums continuously (press and hold).
③: **REP**
④: **SHUF**
⑥: **PAUSE**
To pause playback. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).

14 **Receptor for the card remote commander**

* *When an MP3/WMA is played.*

Card remote commander RM-X151



The following buttons on the card remote commander have also different buttons/functions from the unit. Remove the insulation film before use.

15 **← (I◄◄)/→ (►►I) buttons**
To control CD/radio, the same as (SEEK) –/+ on the unit.
Setup, sound setting, etc., can be operated by ← →.

16 **VOL (volume) +/– button**
To adjust volume.

17 **ATT (attenuate) button**
To attenuate the sound. To cancel, press again.

18 **SEL (select) button**
To same as the select button on the unit.

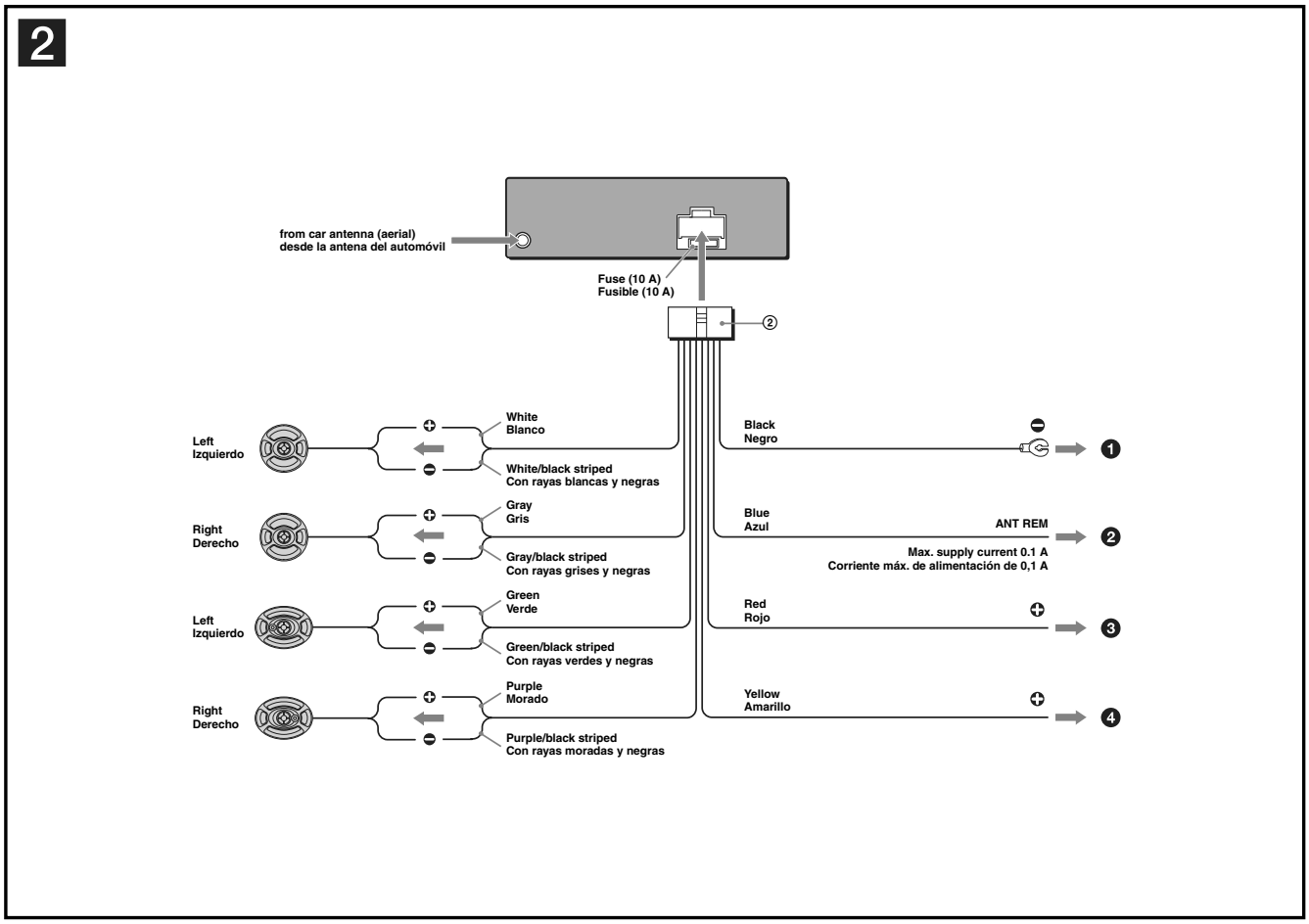
19 **↑ (+)/↓ (–) buttons**
To control CD, the same as ①/② (ALBM –/+) on the unit.
Setup, sound setting, etc., can be operated by ↑ ↓.

20 **SCRL (scroll) button**
To scroll the display item.

21 **Number buttons**
To receive stored stations (press); store stations (press and hold).

Note
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.

• CONNECTIONS



Connection

Connection diagram 2

❶ To a metal surface of the car
First connect the black ground (earth) lead, then connect the yellow and red power input leads.

❷ To the power antenna (aerial) control lead or power supply lead of antenna (aerial) booster amplifier

Notes
- *It is not necessary to connect this lead if there is no power antenna (aerial) or antenna (aerial) booster, or with a manually-operated telescopic antenna (aerial).*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❸ To the +12 V power terminal which is energized in the accessory position of the ignition key switch

Notes
- *If there is no accessory position, connect to the +12 V power (battery) terminal which is energized at all times. Be sure to connect the black ground (earth) lead to a metal surface of the car first.*
- *When your car has a built-in FM/AM antenna (aerial) in the rear/side glass, see "Notes on the control and power supply leads."*

❹ To the +12 V power terminal which is energized at all times
Be sure to connect the black ground (earth) lead to a metal surface of the car first.

Notes on the control and power supply leads
- *The power antenna (aerial) control lead (blue) supplies +12 V DC when you turn on the tuner.*
- *When your car has built-in FM/AM antenna (aerial) in the rear/side glass, connect the power antenna (aerial) control lead (blue) or the accessory power input lead (red) to the power terminal of the existing antenna (aerial) booster. For details, consult your dealer.*
- *A power antenna (aerial) without a relay box cannot be used with this unit.*

Memory hold connection
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection
- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground (earth) lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*
- *To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (–) lead for the right and left speakers.*
- *Do not connect the unit's speaker leads to each other.*

Note on connection
If speaker and amplifier are not connected correctly, "FAILURE" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

Conexión

Diagrama de conexión 2

❶ A una superficie metálica del automóvil
Conecte primero el cable de conexión a masa negro y, a continuación, conecte los cables de entrada de alimentación amarillo y rojo.

❷ Al cable de control de la antena motorizada o al cable de fuente de alimentación del amplificador de señal de la antena

Notas
- *Si no se dispone de antena motorizada ni de amplificador de antena, o se utiliza una antena telescópica accionada manualmente, no será necesario conectar este cable.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal posterior o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❸ Al terminal de alimentación de +12 V que recibe energía en la posición de accesorio del interruptor de la llave de encendido

Notas
- *Si no hay posición de accesorio, conéctelo al terminal de alimentación (batería) de +12 V que recibe energía sin interrupción. Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.*
- *Si el automóvil incorpora una antena de FM/AM en el cristal posterior o lateral, consulte "Notas sobre los cables de control y de fuente de alimentación".*

❹ Al terminal de alimentación de +12 V que recibe energía sin interrupción
Asegúrese de conectar primero el cable de conexión a masa negro a una superficie metálica del automóvil.

Notas sobre los cables de control y de fuente de alimentación
- *El cable de control de la antena motorizada (azul) suministrará cc de + 12 V cuando conecte la alimentación del sintonizador.*
- *Si el automóvil dispone de una antena de FM/AM incorporada en el cristal posterior o lateral, conecte el cable de control de antena motorizada (azul) o el cable de entrada de alimentación auxiliar (rojo) al terminal de alimentación del amplificador de antena existente. Para obtener más información, consulte a su distribuidor.*
- *Con esta unidad no es posible utilizar una antena motorizada sin caja de relé.*

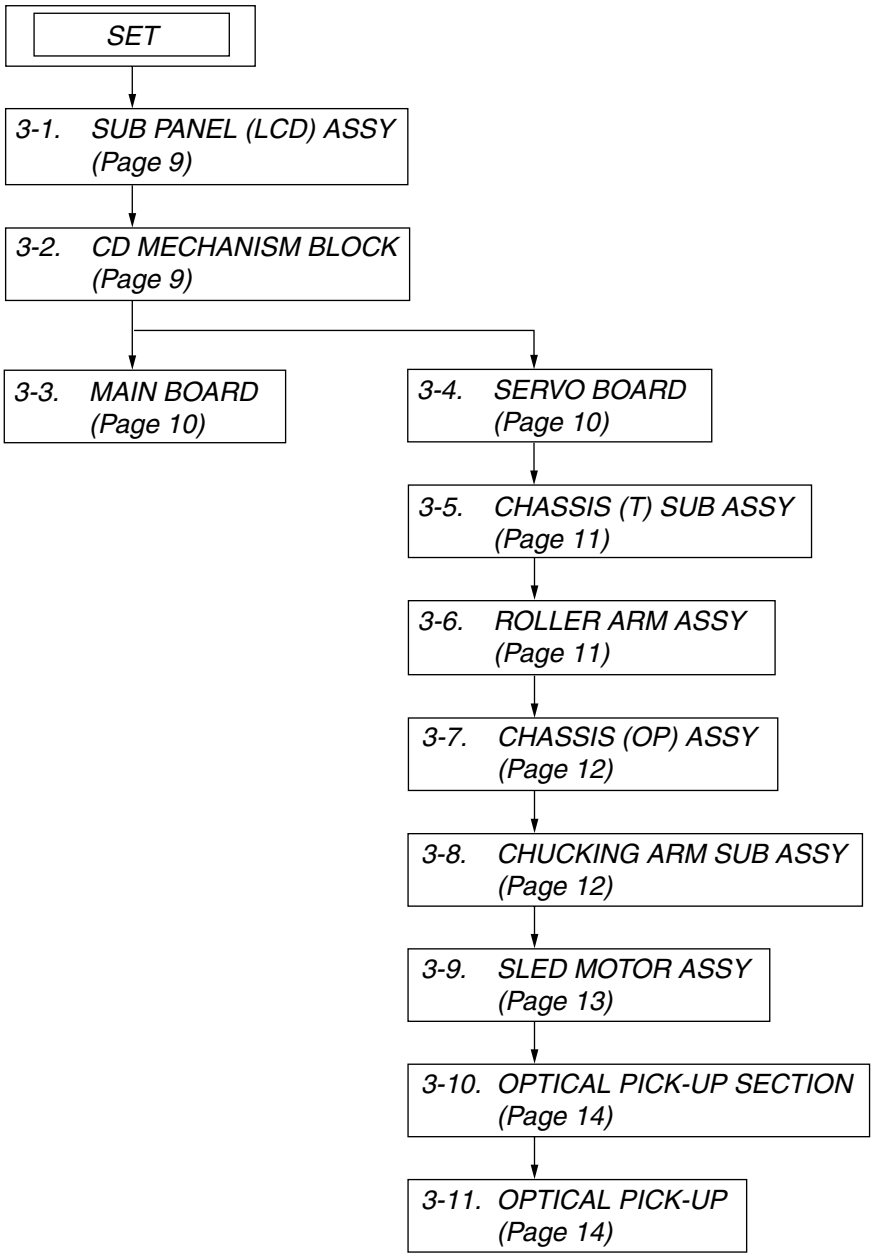
Conexión para protección de la memoria
Si conecta el cable de entrada de alimentación amarillo, el circuito de la memoria recibirá siempre alimentación, aunque apague el interruptor de encendido.

Notas sobre la conexión de los altavoces
- *Antes de conectar los altavoces, desconecte la alimentación de la unidad.*
- *Utilice altavoces con una impedancia de 4 a 8 Ω con la capacidad de potencia adecuada para evitar que se dañen.*
- *No conecte los terminales de altavoz al chasis del automóvil, ni conecte los terminales del altavoz derecho con los del izquierdo.*
- *No conecte el cable de conexión a masa de esta unidad al terminal negativo (–) del altavoz.*
- *No intente conectar los altavoces en paralelo.*
- *Conecte solamente altavoces pasivos. Si conecta altavoces activos (con amplificadores incorporados) a los terminales de altavoz, puede dañar la unidad.*
- *Para evitar fallas de funcionamiento, no utilice los cables de altavoz incorporados instalados en el automóvil si la unidad comparte un cable negativo común (–) para los altavoces derecho e izquierdo.*
- *No conecte los cables de altavoz de la unidad entre sí.*

Nota sobre la conexión
Si el altavoz y el amplificador no están conectados correctamente, aparecerá "FAILURE" en la pantalla. En tal caso, compruebe la conexión de ambos dispositivos.

SECTION 3
DISASSEMBLY

Note: This set can be disassemble according to the following sequence.


SET
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3-2. CD MECHANISM BLOCK (Page 9)
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3-6. ROLLER ARM ASSY (Page 11)
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3-8. CHUCKING ARM SUB ASSY (Page 12)
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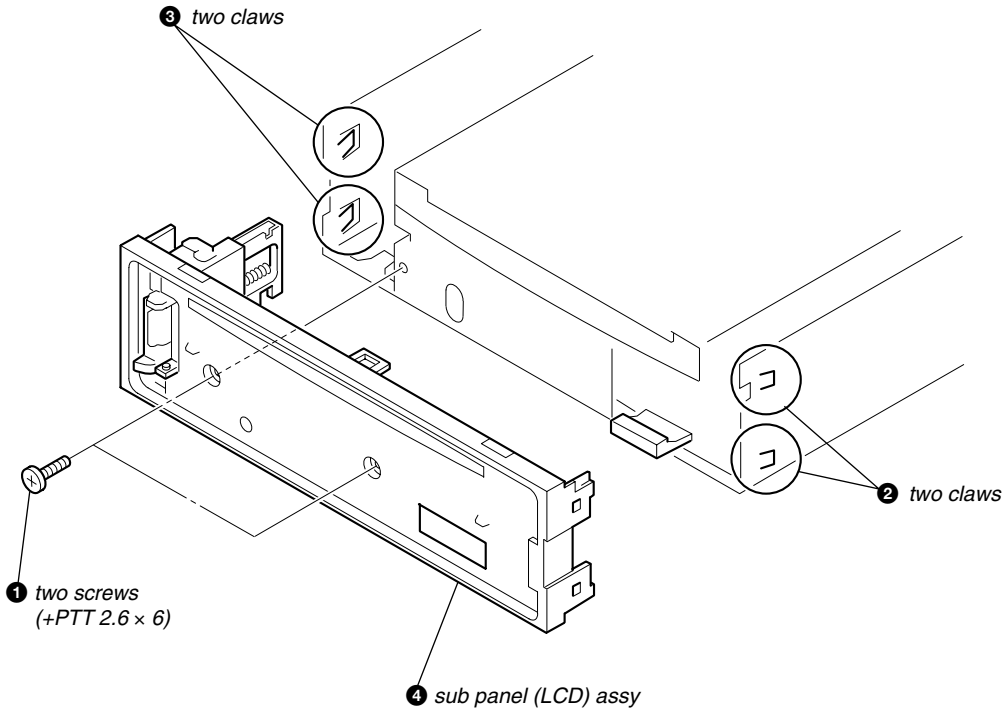
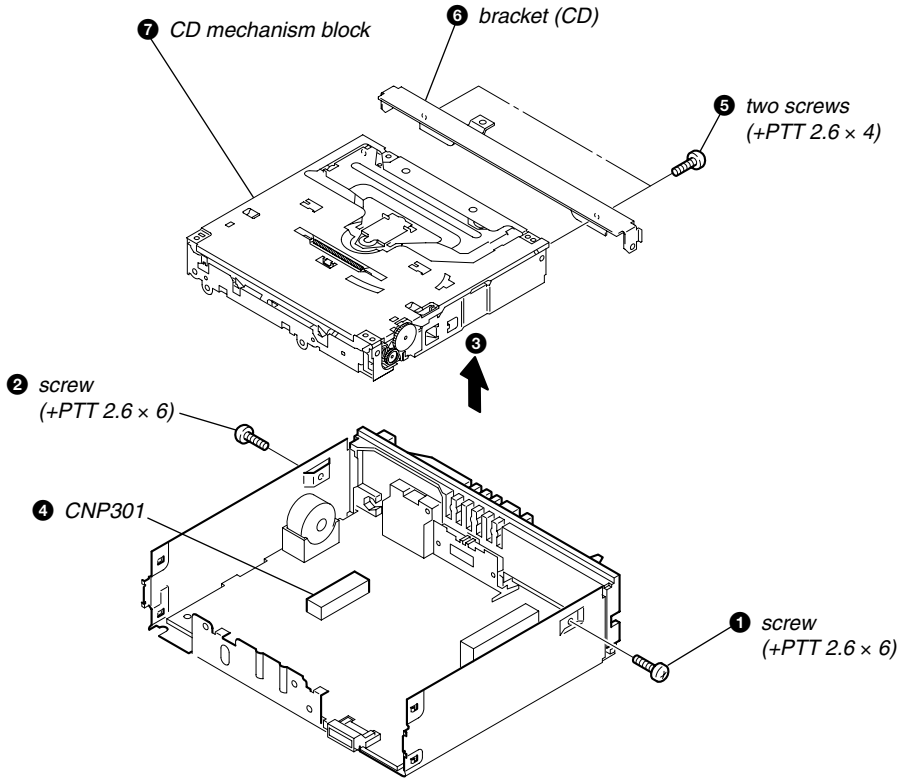
3-10. OPTICAL PICK-UP SECTION (Page 14)
3-11. OPTICAL PICK-UP (Page 14)

Note: Follow the disassembly procedure in the numerical order given.

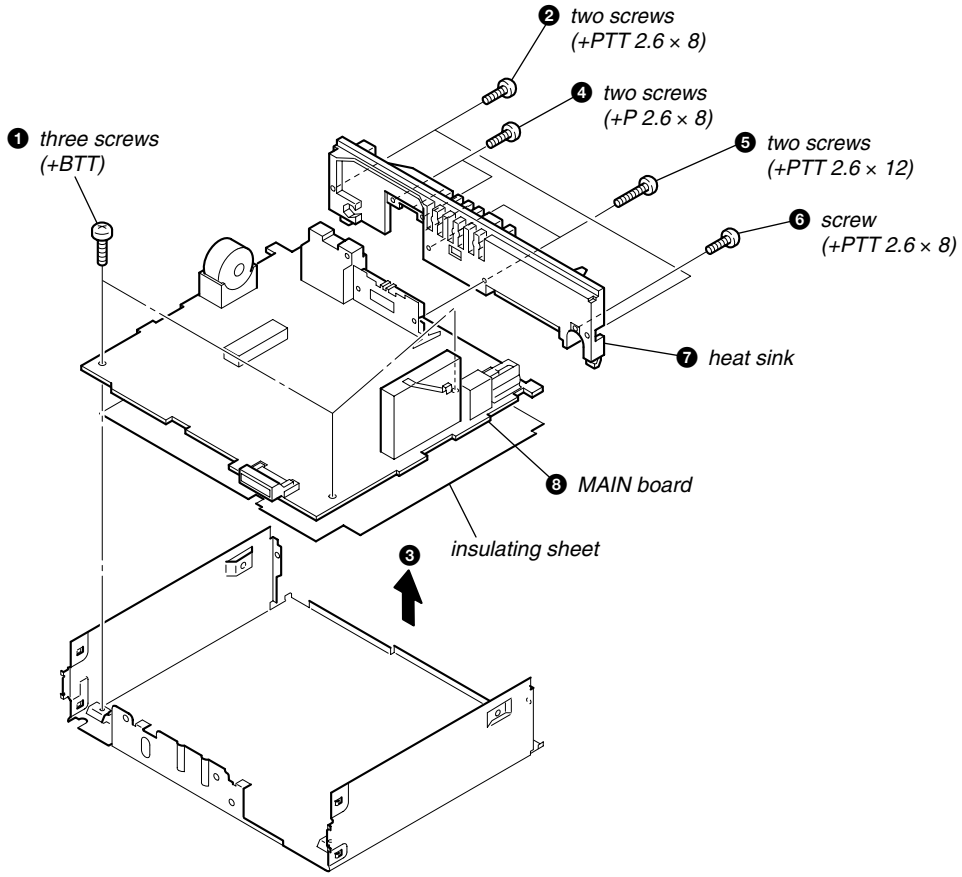
3-1. SUB PANEL (LCD) ASSY



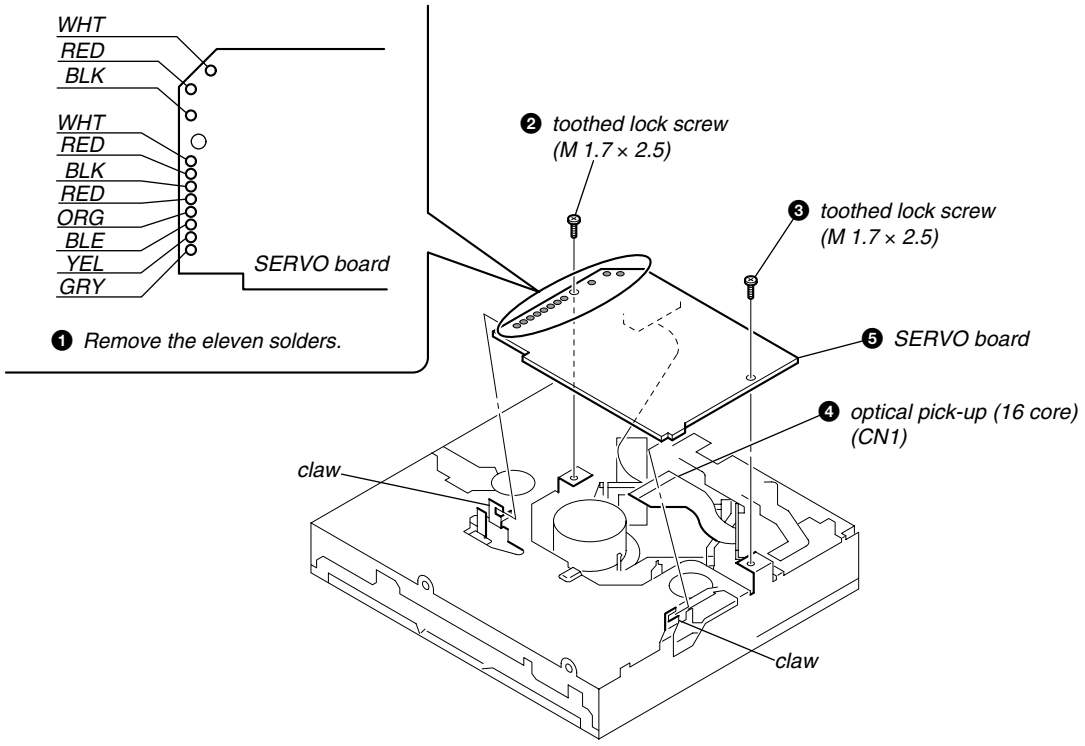
3-2. CD MECHANISM BLOCK



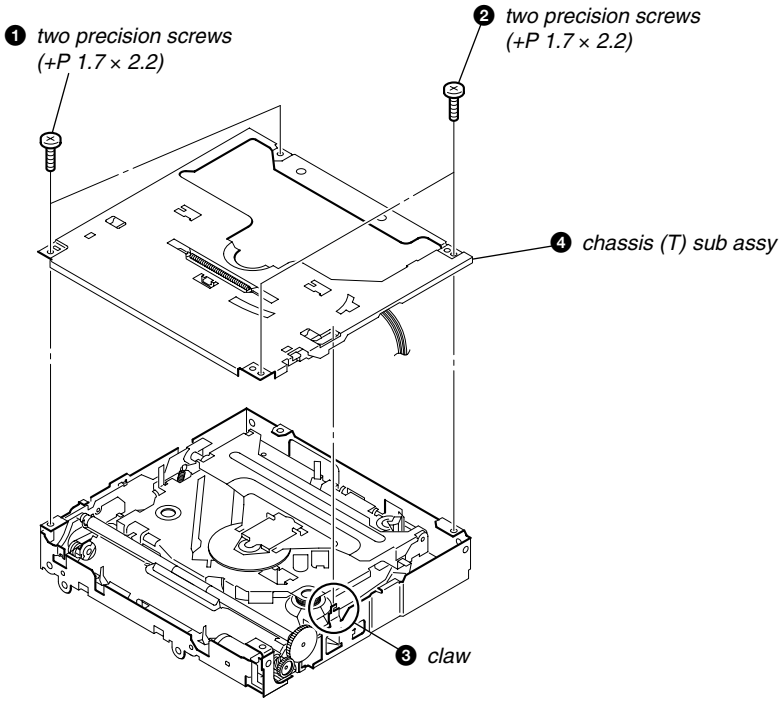
3-3. MAIN BOARD



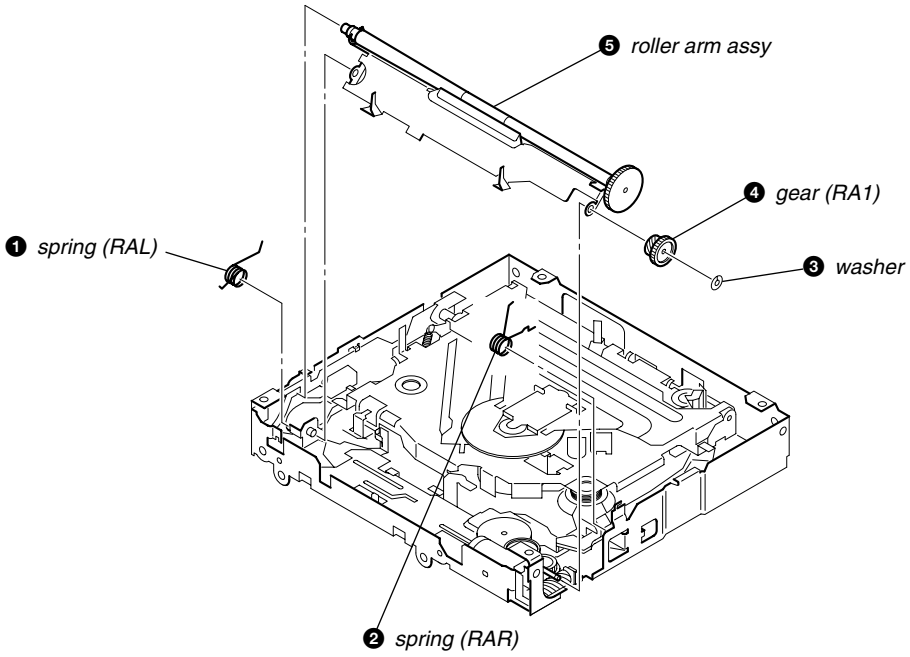
3-4. SERVO BOARD



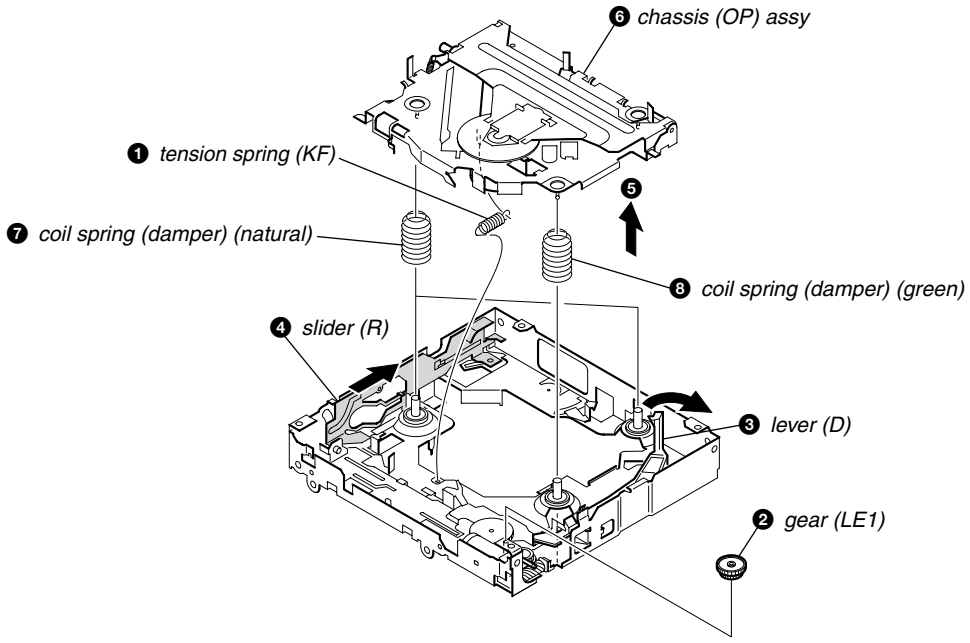
3-5. CHASSIS (T) SUB ASSY



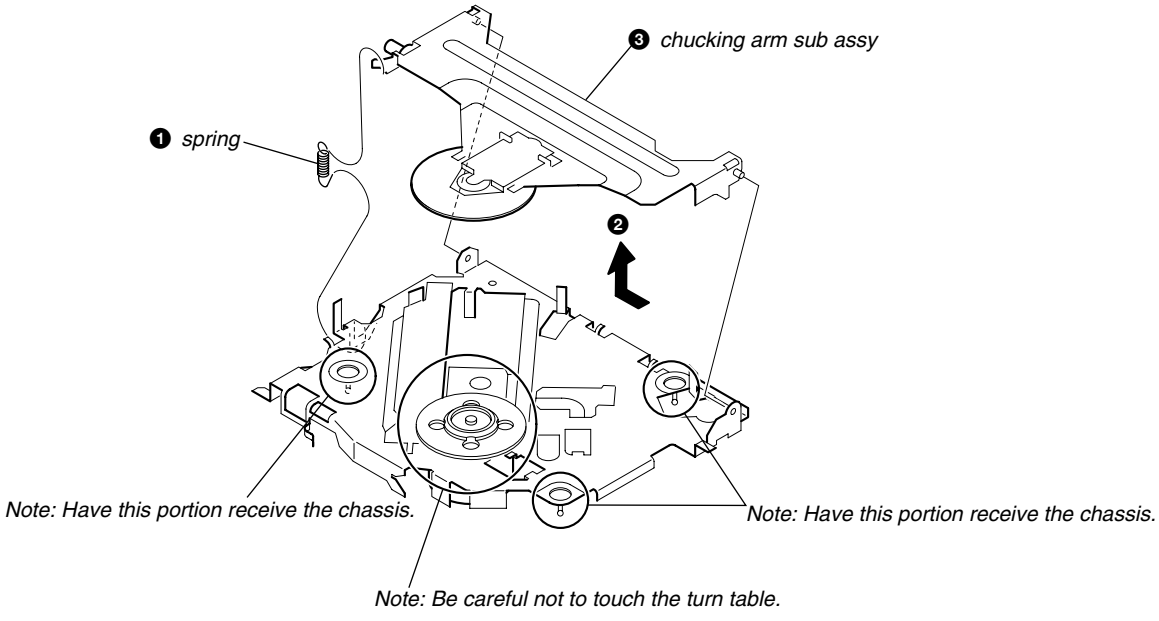
3-6. ROLLER ARM ASSY



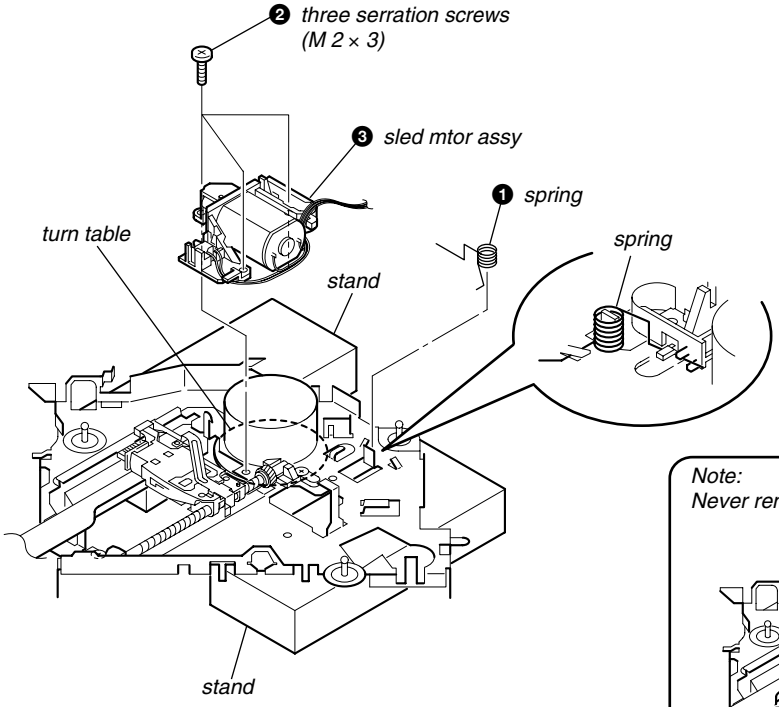
3-7. CHASSIS (OP) ASSY



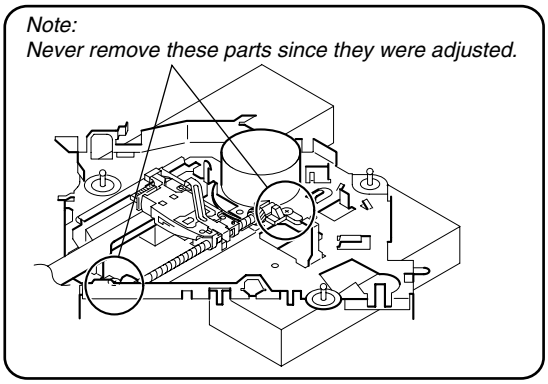
3-8. CHUCKING ARM SUB ASSY


❸ chucking arm sub assy
❶ spring
❷
Note: Have this portion receive the chassis.
Note: Have this portion receive the chassis.
Note: Be careful not to touch the turn table.

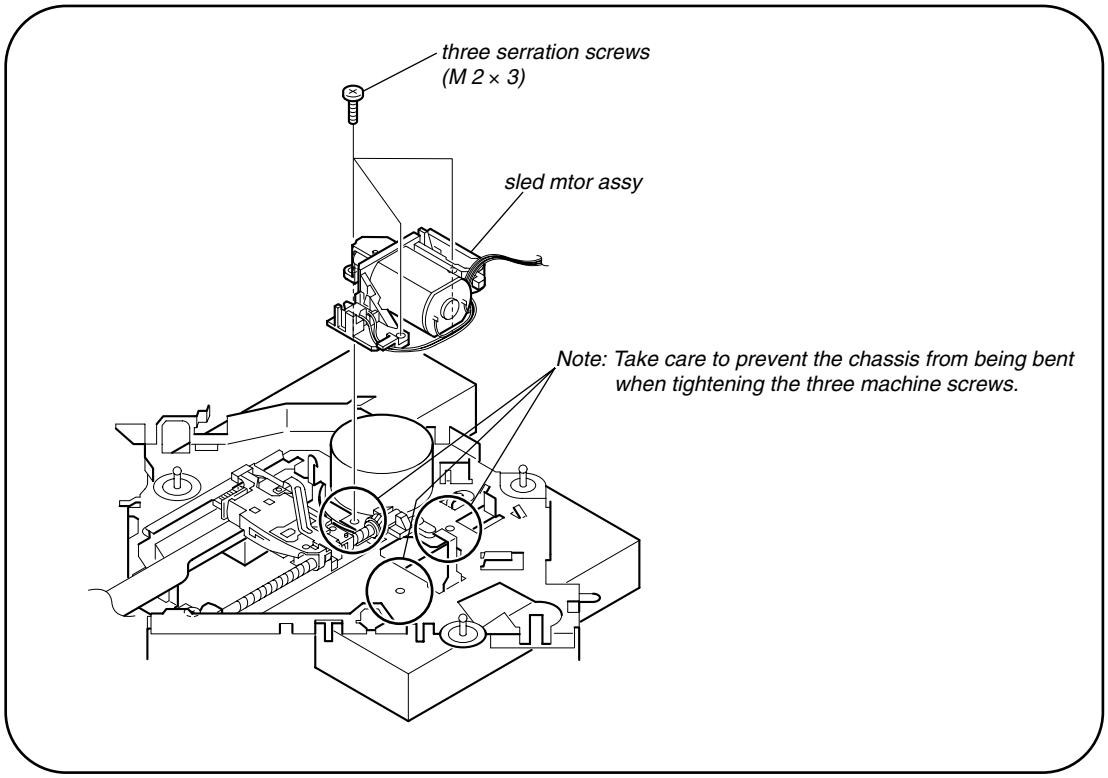
3-9. SLED MOTOR ASSY



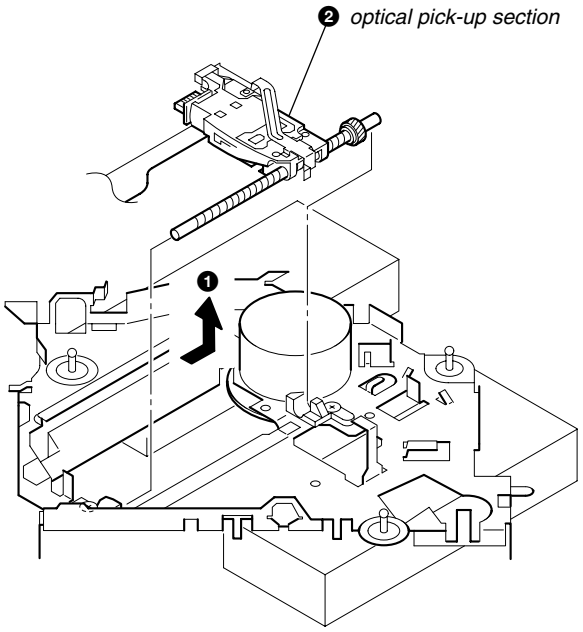
Note: Place the stand with care not to touch the turn table.

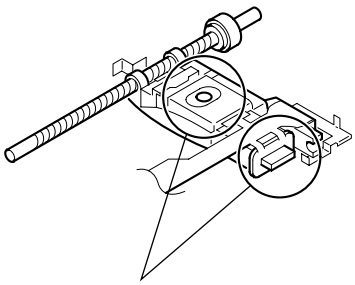


Note for Assembly


three serration screws
(M 2 × 3)
sled mtor assy
Note: Take care to prevent the chassis from being bent
when tightening the three machine screws.

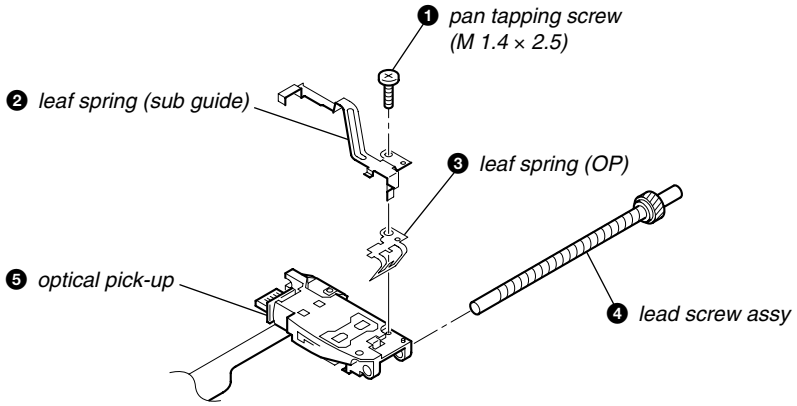
3-10. OPTICAL PICK-UP SECTION



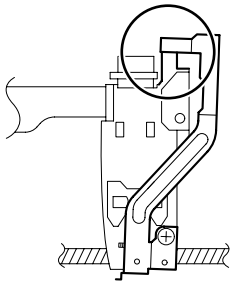


Note: Be careful not to touch the lens and hologram terminal when removing the optical pick-up section.

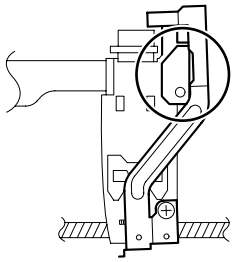
3-11. OPTICAL PICK-UP



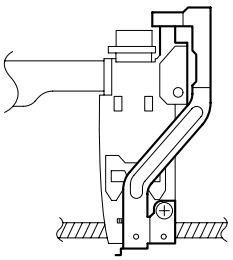
Notes for Assembly



Prevent the end of the leaf spring (sub guide) from being in contact with the OP slide base.



Prevent the end of the leaf spring (sub guide) from being in contact with the OP slide base.



There is space at the end of the leaf spring (sub guide) to avoid contact with the slide.

SECTION 4
DIAGNOSIS FUNCTION

Description of the Diagnostics function:

1. Setting the Diag display mode

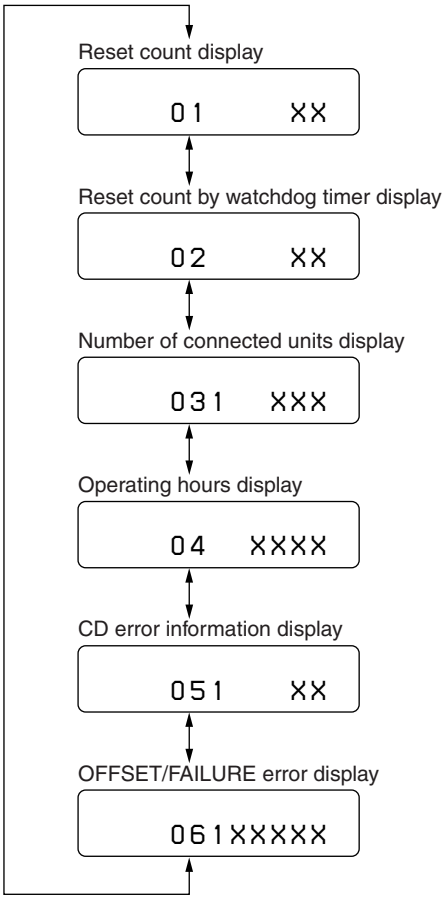
With the power off, press the [4] button, [5] button, and [4] button on the set body or the remote control (for more than 2 seconds) in turn.

2. Canceling the Diag display mode

During the Diag function mode, press the [OFF] button.

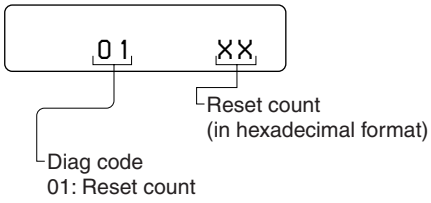
3. Initial display in the Diag display mode.

Just when the Diag mode is entered, "reset count" is displayed. The display mode is switched by each rotation of [▶▶ ▶▶I/SEEK +] or [I◀◀ ◀◀/SEEK –] keys.

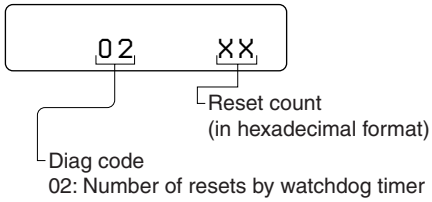


4. Contents of each display mode

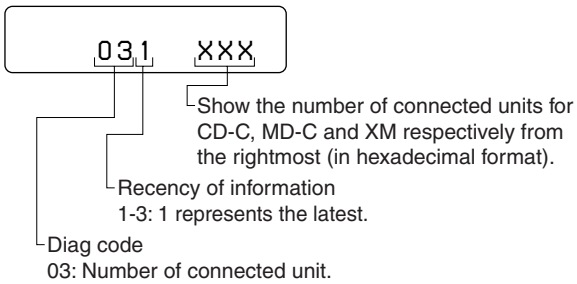
4-1. Reset count display mode



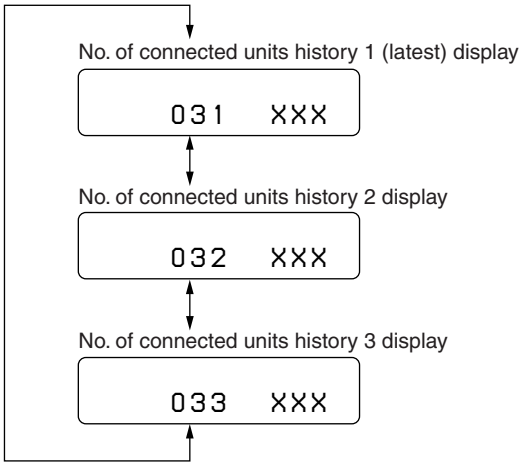
4-2. Reset count by watchdog timer display mode



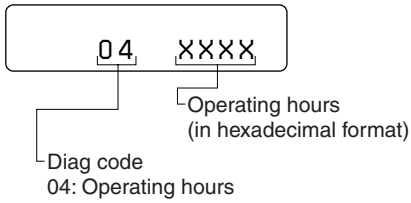
4-3. Number of connected units display mode


031 XXX
Show the number of connected units for CD-C, MD-C and XM respectively from the rightmost (in hexadecimal format).
Recency of information
1-3: 1 represents the latest.
Diag code
03: Number of connected unit.

The display mode is switched by each rotation of [2] or [1] keys during the number of connected units display mode.

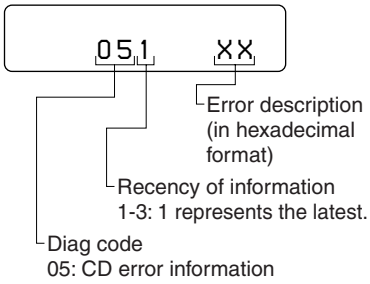

No. of connected units history 1 (latest) display
031 XXX
No. of connected units history 2 display
032 XXX
No. of connected units history 3 display
033 XXX

4-4. Operating hours display mode



4-5. CD error information display mode

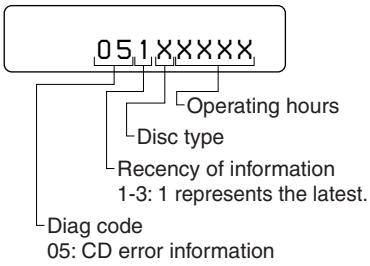
4-5-1. Error description



Error information

Indication	Description
1X	SERVO ERROR
3X	LOADING ERROR
4X	TRACK JUMP
5X	TEXT ERROR
FX	MECHA ERROR

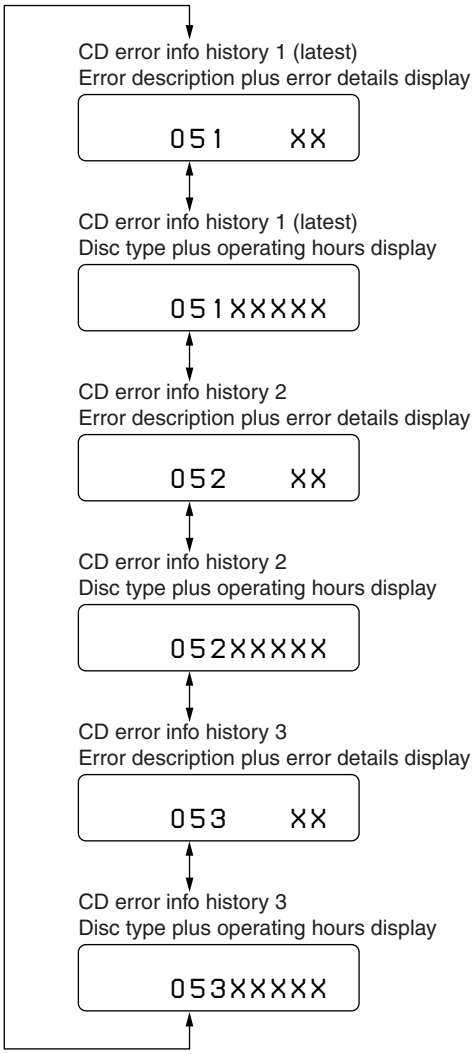
4-5-2. Disc type and operating hours



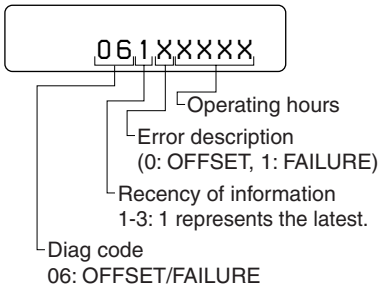
Disc type

Indication	Disc type
0	MP3
1	WMA
2	AAC
3	ATRAC
8	CD/DA
F	UNKNOWN

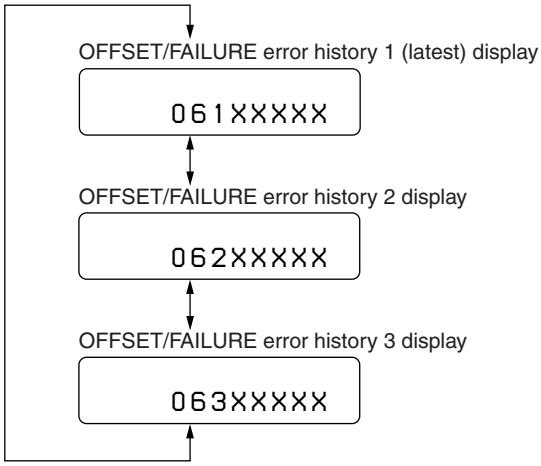
The display mode is switched by each rotation of [2] or [1] keys during the CD error information display mode.


CD error info history 1 (latest)
Error description plus error details display
051 XX
CD error info history 1 (latest)
Disc type plus operating hours display
051XXXXX
CD error info history 2
Error description plus error details display
052 XX
CD error info history 2
Disc type plus operating hours display
052XXXXX
CD error info history 3
Error description plus error details display
053 XX
CD error info history 3
Disc type plus operating hours display
053XXXXX

4-6. OFFSET/FAILURE error display mode

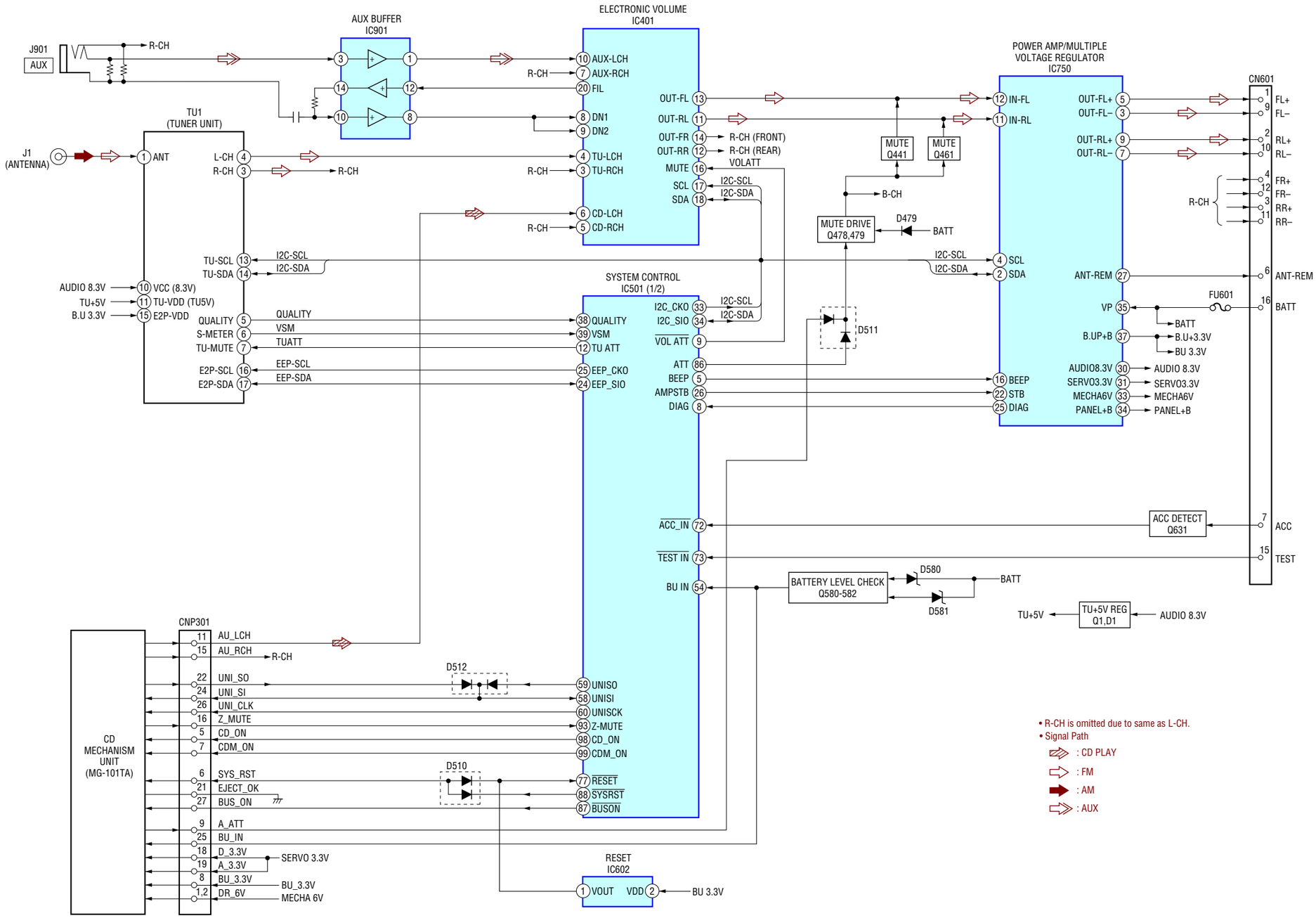


The display mode is switched by each rotation of [2] or [1] keys during the OFFSET/FAILURE error display mode.

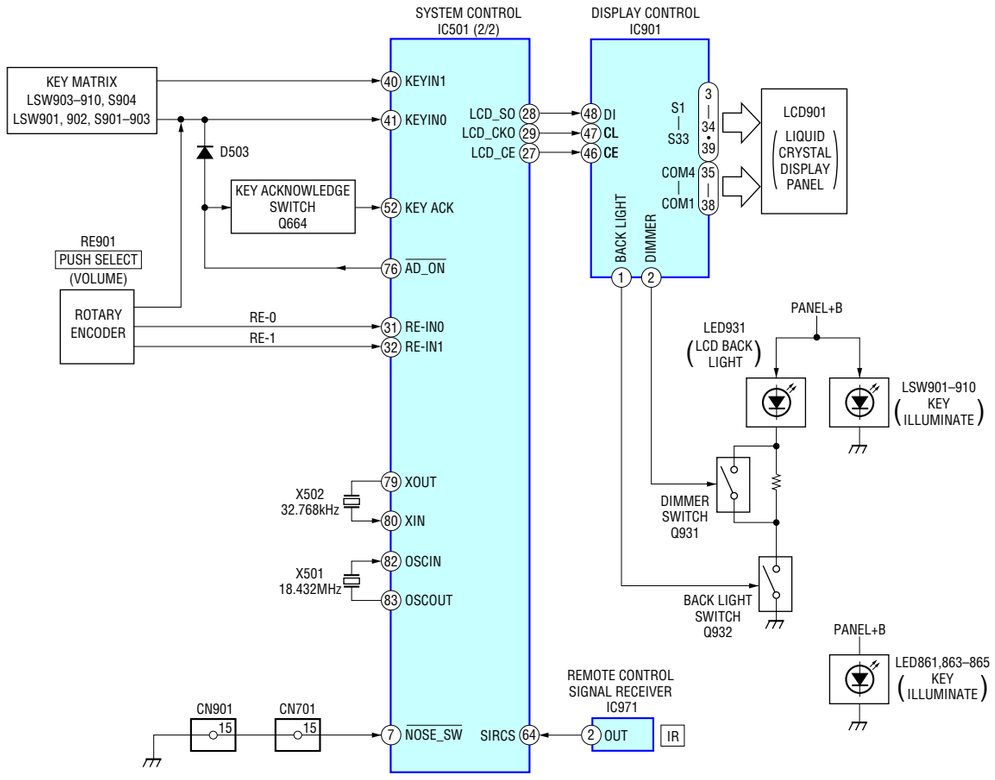


SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM – MAIN Section –



5-2. BLOCK DIAGRAM – DISPLAY Section –



• NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS. (In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬ : B+ Line.
- ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
  < > : CD PLAY
  * : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇛ : CD PLAY
  ⇨ : FM
  ➡ : AM
  ⇨ : AUX

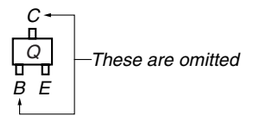
For printed wiring boards.

Note:

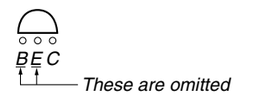
- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

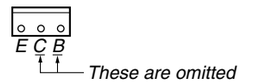
Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.



These are omitted



These are omitted

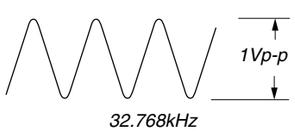


These are omitted

• Waveforms

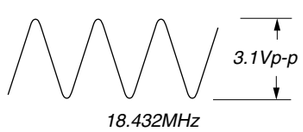
— MAIN Board —

① IC501 ⑲ (XOUT)



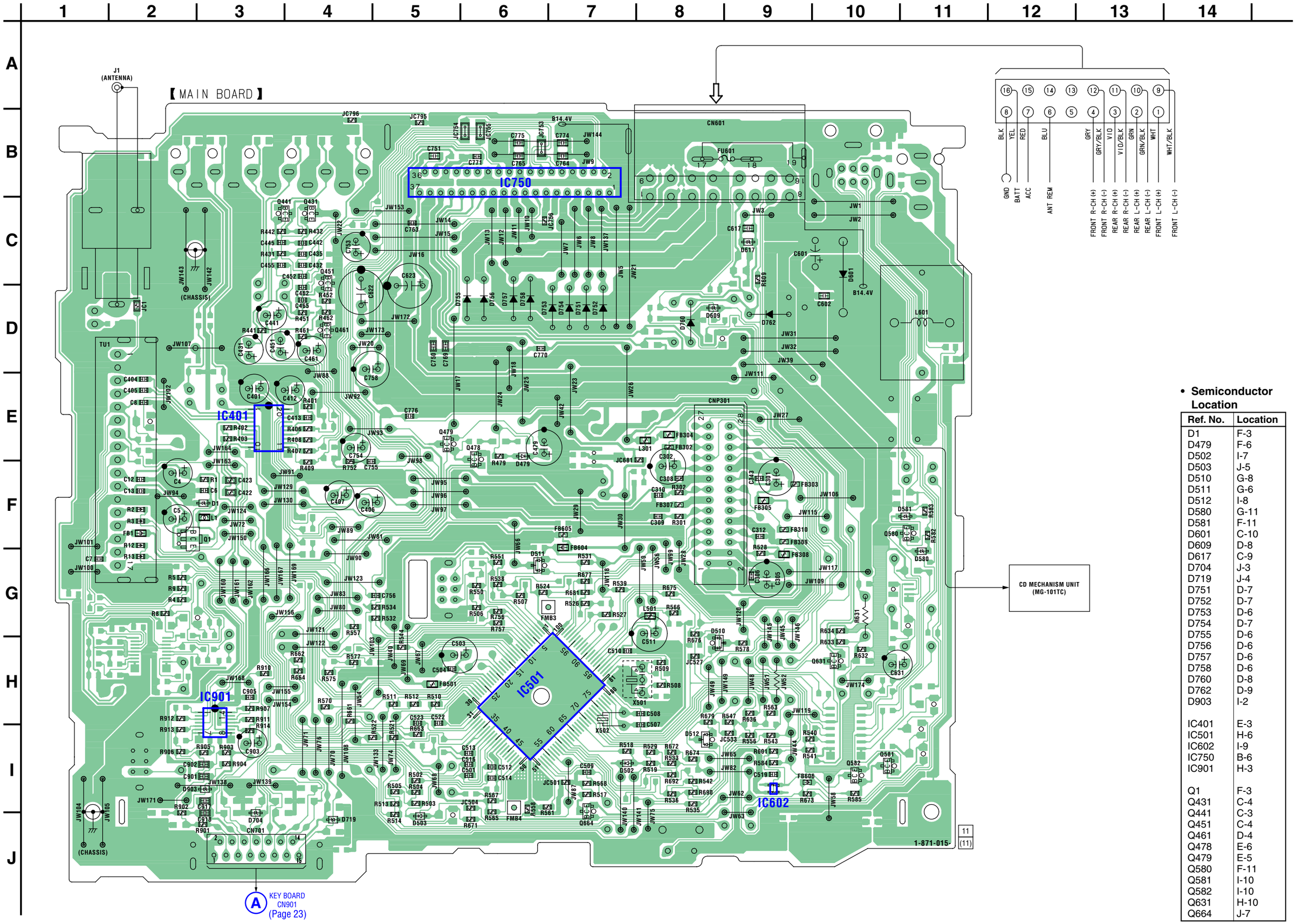
0.5 V/DIV, 20 μsec/DIV

② IC501 ㉓ (OSCOUT)



1 V/DIV, 20 nsec/DIV

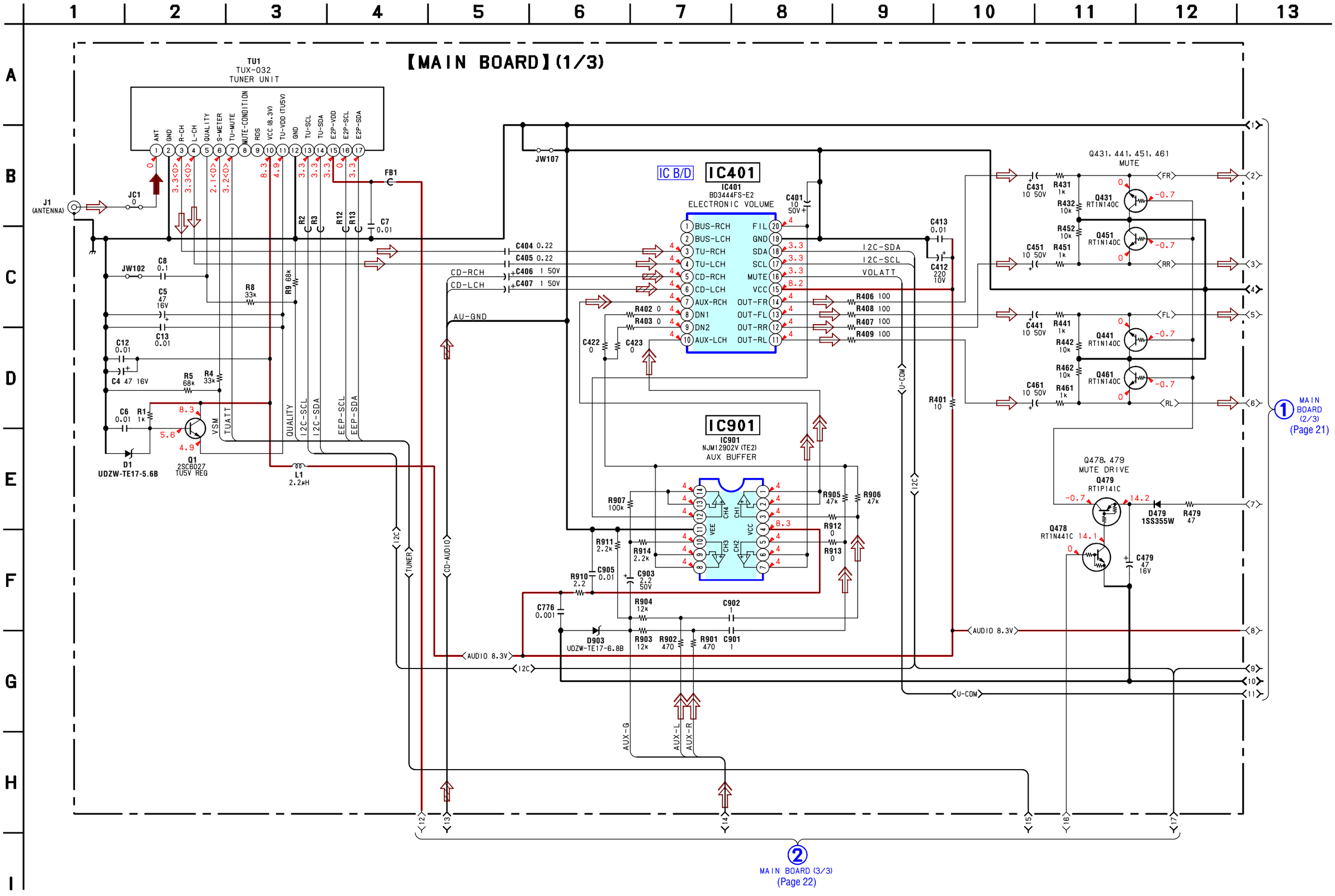
5-3. PRINTED WIRING BOARD – MAIN Section – : Uses unleaded solder.



- **Semiconductor Location**

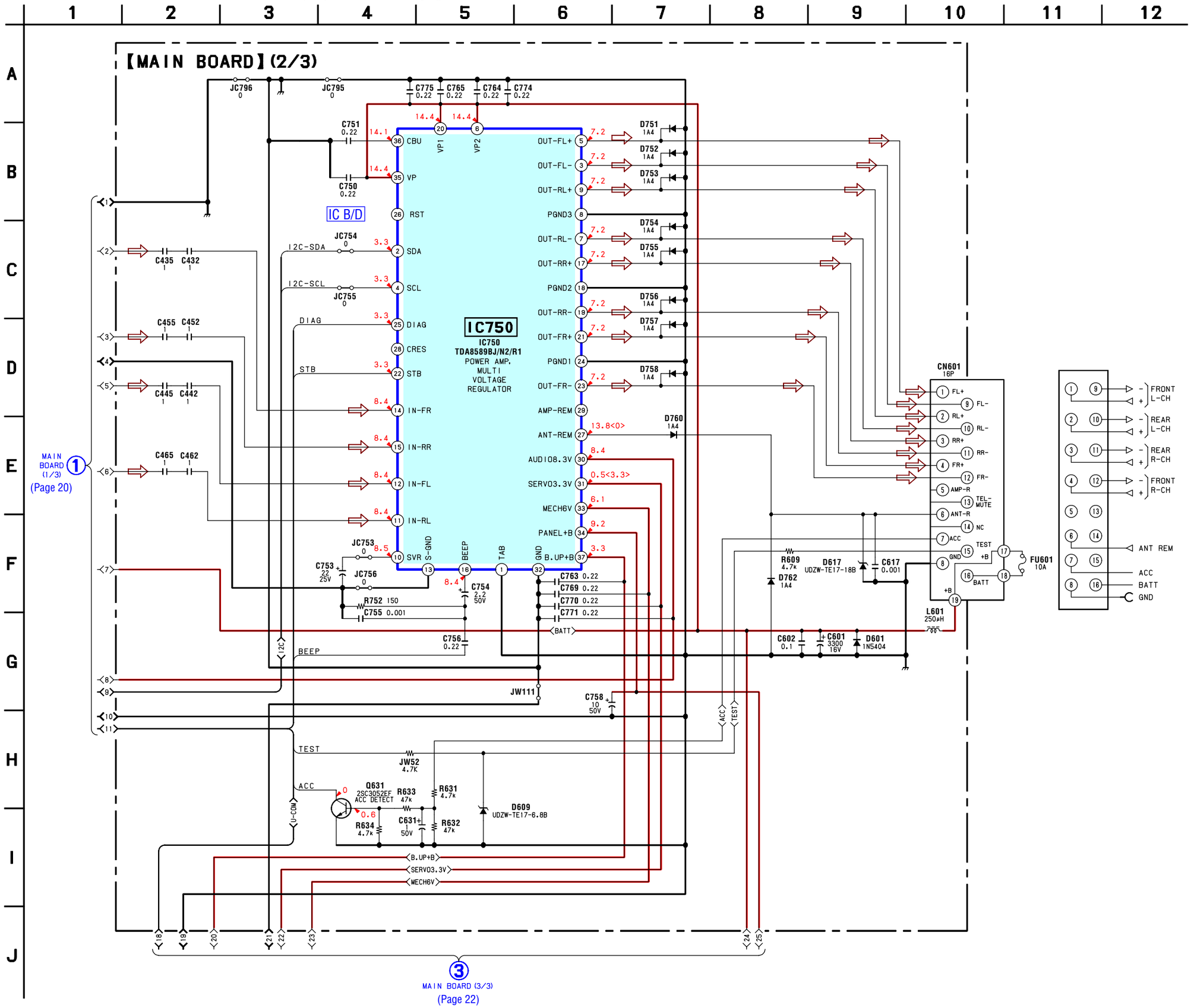
Ref. No.	Location
D1	F-3
D479	F-6
D502	I-7
D503	J-5
D510	G-8
D511	G-6
D512	I-8
D580	G-11
D581	F-11
D601	C-10
D609	D-8
D617	C-9
D704	J-3
D719	J-4
D751	D-7
D752	D-7
D753	D-6
D754	D-7
D755	D-6
D756	D-6
D757	D-6
D758	D-6
D760	D-8
D762	D-9
D903	I-2
IC401	E-3
IC501	H-6
IC602	I-9
IC750	B-6
IC901	H-3
Q1	F-3
Q431	C-4
Q441	C-3
Q451	C-4
Q461	D-4
Q478	E-6
Q479	E-5
Q580	F-11
Q581	I-10
Q582	I-10
Q631	H-10
Q664	J-7

5-4. SCHEMATIC DIAGRAM – MAIN Section (1/3) – • Refer to page 25 for IC Block Diagram.



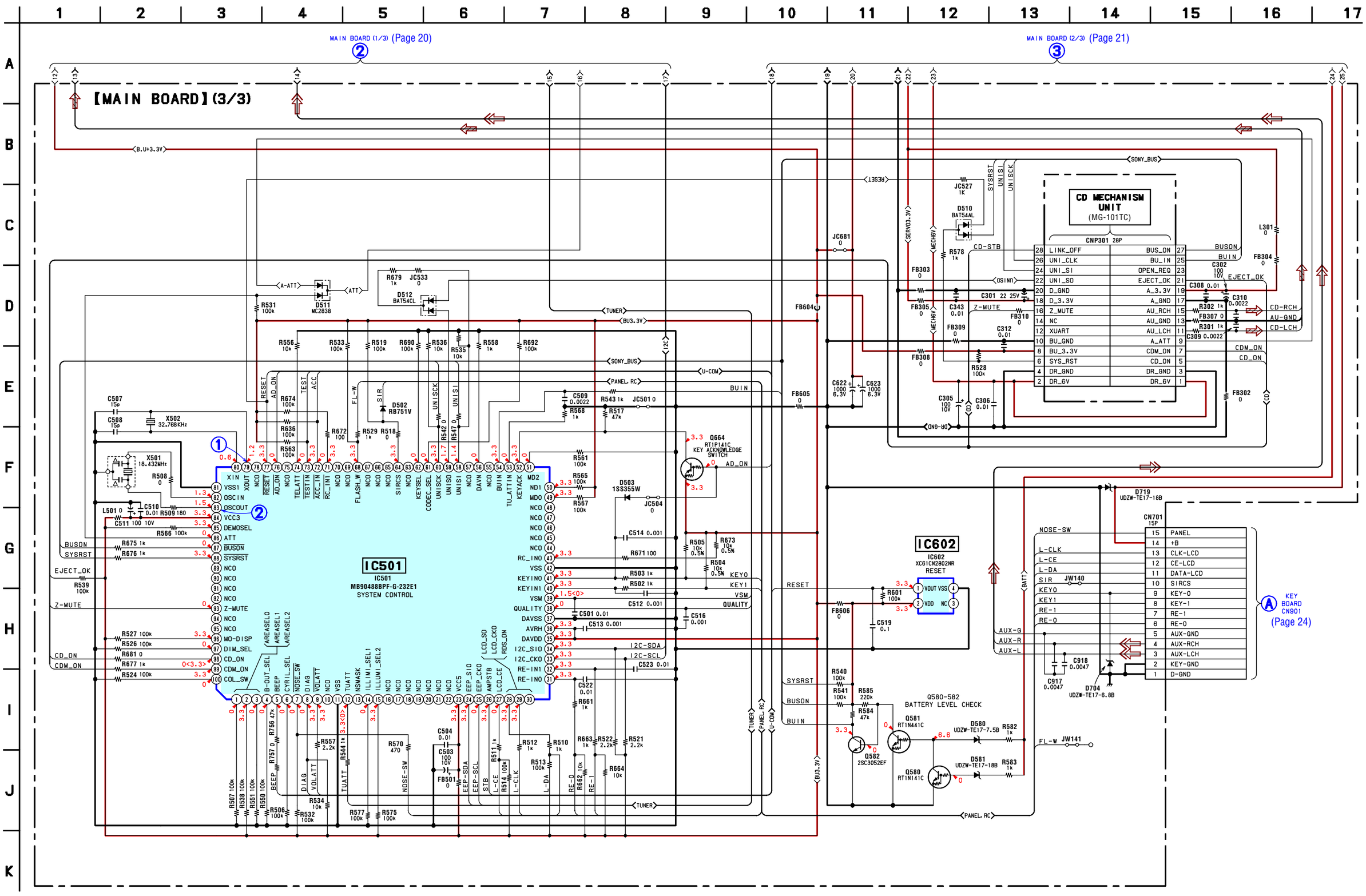
5-5. SCHEMATIC DIAGRAM – MAIN Section (2/3) –

• Refer to page 26 for IC Block Diagram.



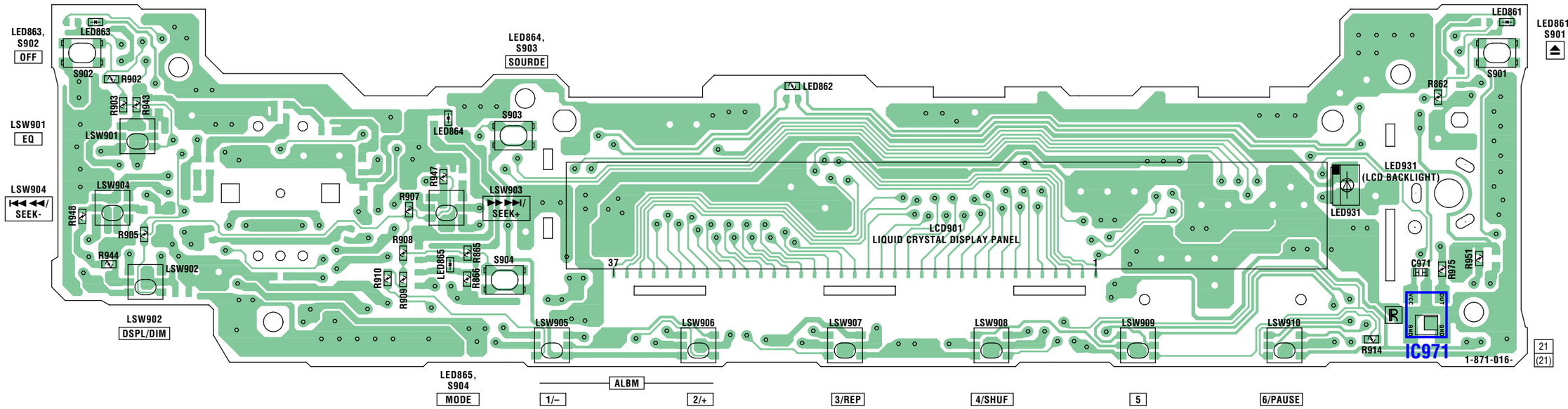
5-6. SCHEMATIC DIAGRAM – MAIN Section (3/3) –

- Refer to page 18 for Waveforms.
- Refer to page 27 for IC Pin Descriptions.



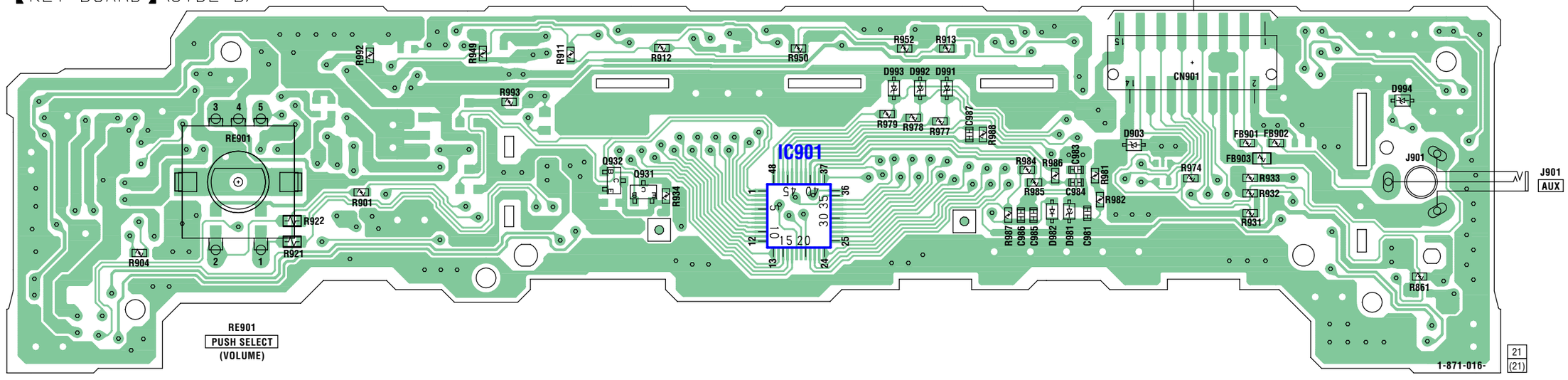
5-7. PRINTED WIRING BOARD – KEY Section – : Uses unleaded solder.

【KEY BOARD】(SIDE A)



(Page 19)
MAIN BOARD
CN701
A

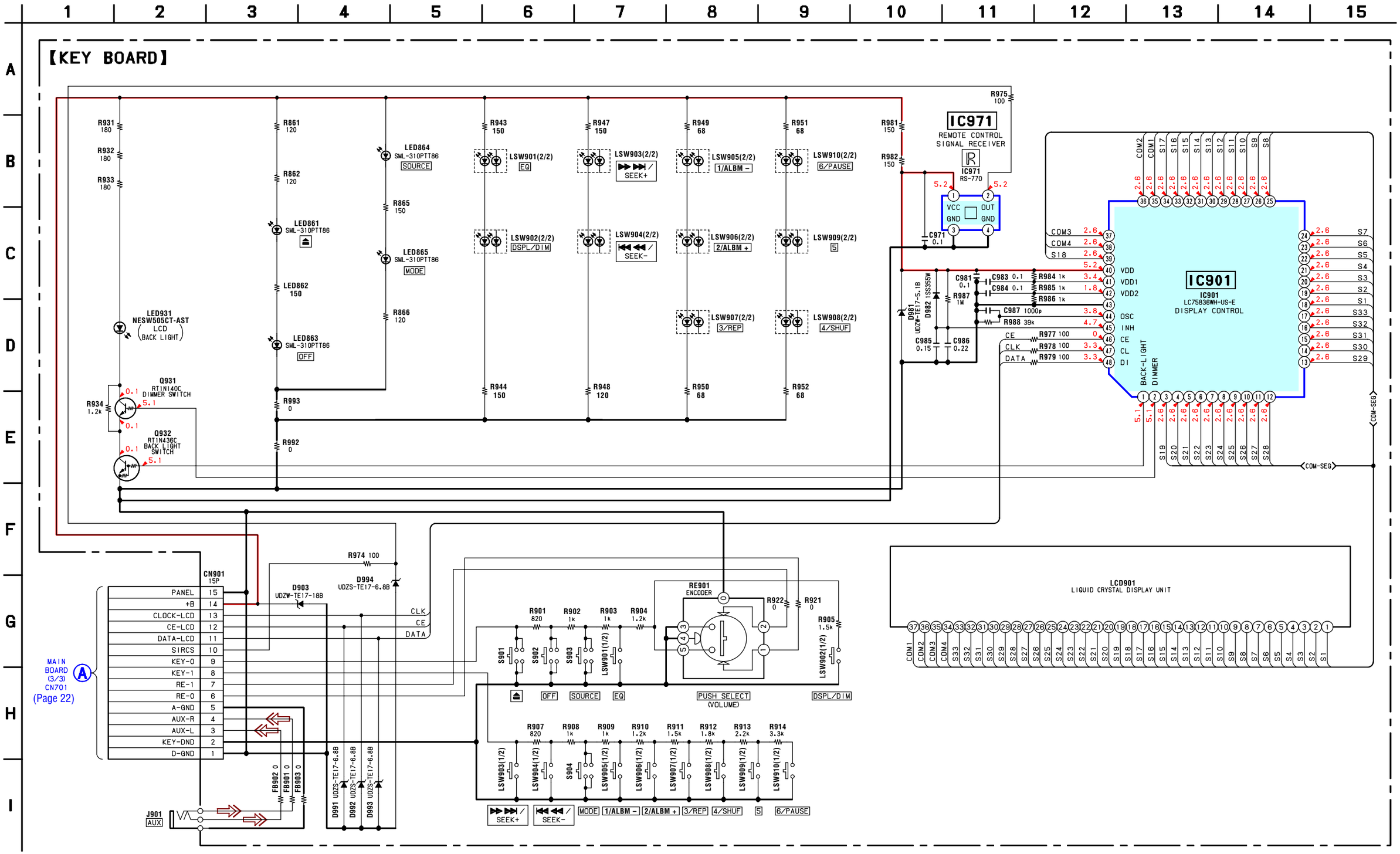
【KEY BOARD】(SIDE B)



• **Semiconductor Location**

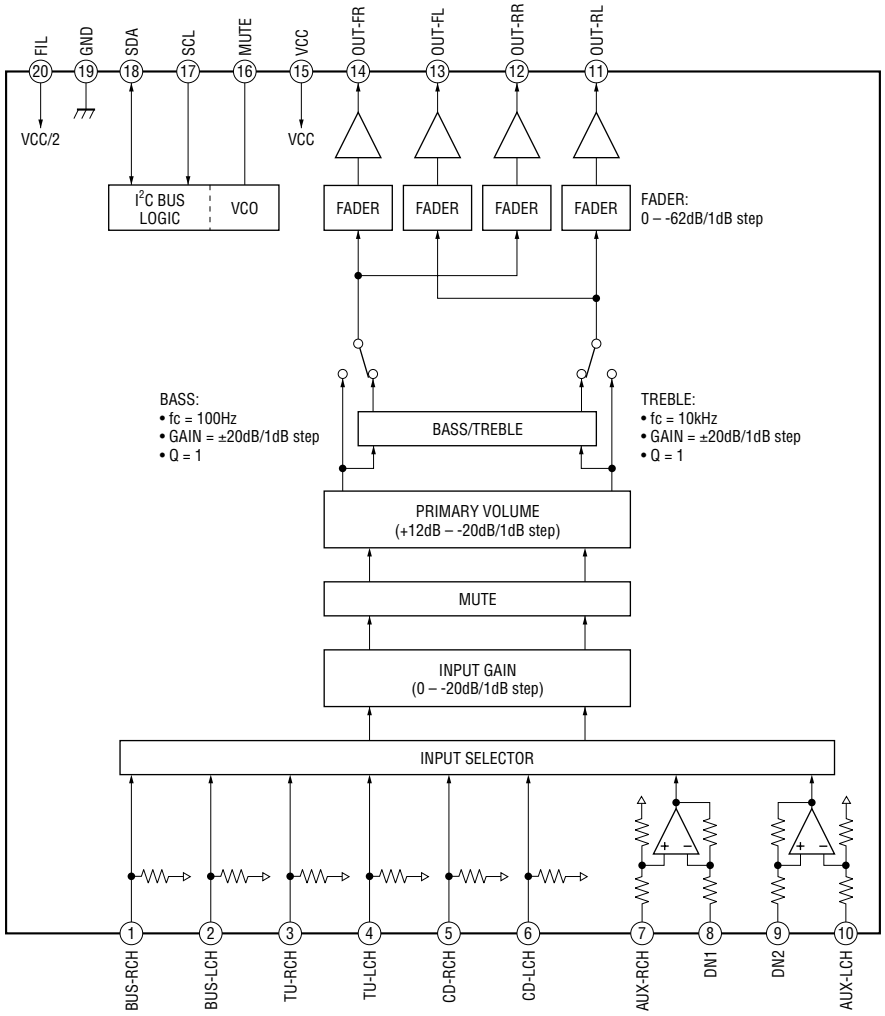
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D903	G-11	IC901	G-8	LED931	C-13
D981	H-10	IC971	D-13		
D982	H-10			Q931	G-7
D991	G-9	LED861	A-14	Q932	G-6
D992	G-9	LED863	A-2		
D993	G-9	LED864	B-5		
D994	G-13	LED865	C-5		

5-8. SCHEMATIC DIAGRAM – KEY Section –

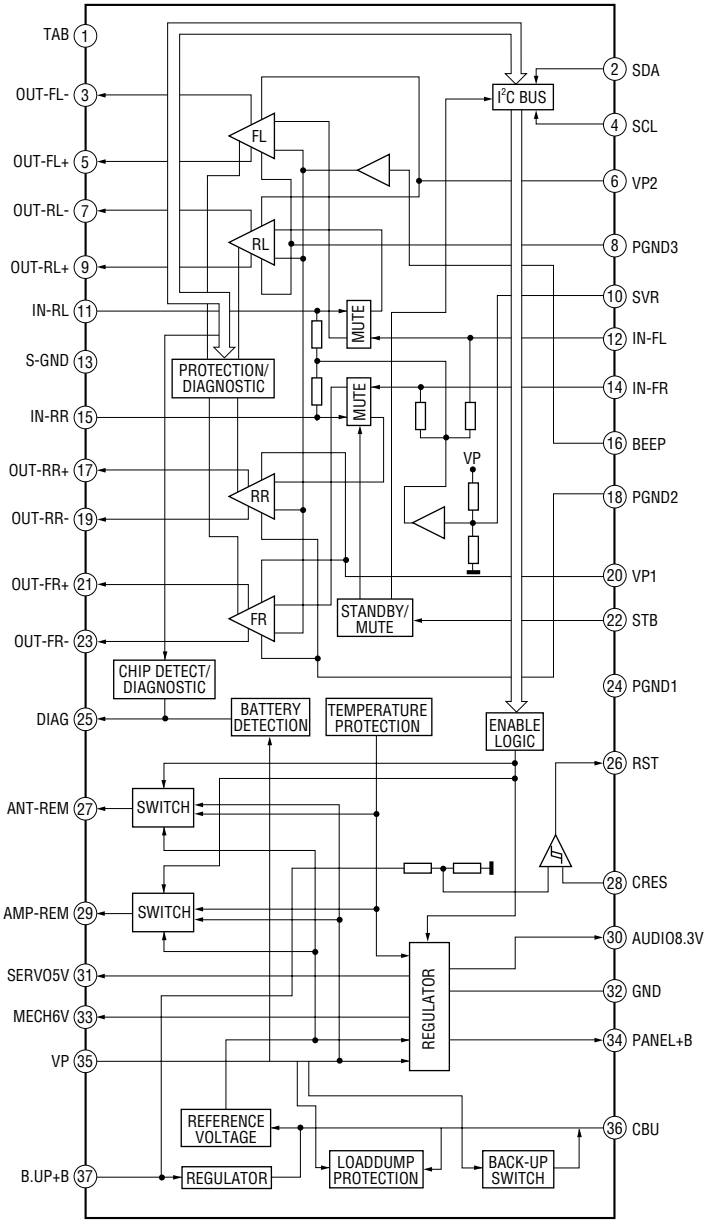


- **IC Block Diagrams**

IC401 BD3444FS-E2 (MAIN Board (1/3))



IC750 TDA8589BJ/N2/R1 (MAIN Board (2/3))



• **IC Pin Descriptions**

IC501 MB90488BPF-G-232E1 (SYSTEM CONTROL) (MAIN BOARD (3/3))

Pin No.	Pin Name	I/O	Pin Description
1	AREASEL0	I	Destination setting pin
2	AREASEL1	I	Destination setting pin
3	AREASEL2	I	Frequency select signal input
4	B-OUT SEL	I	Blackout existence distinction signal input (L: blackout none, H: blackout)
5	BEEP	O	BEEP signal output
6	CYRIL_SEL	I	Distinction pin for Cyril word. (L: not for the Kiril word, H: for the Kiril word)
7	$\overline{\text{NOSE\_SW}}$	I	Front panel detaching detection signal input (L: Panel on, H: Panel off)
8	DIAG	I	Status signal input from power amplifier.
9	$\overline{\text{VOLATT}}$	O	Electronic volume attenuate control signal output.
10	NCO	O	Not used. (Open)
11	VSS	—	Ground
12	TUATT	O	Tuner mute control signal output
13	NSMASK	O	Noise mask signal output Not used in this set. (Open)
14	ILLUMI_SEL1	I	Illumination voltage setting pin
15	ILLUMI_SEL2	I	Illumination voltage setting pin
16, 17	NCO	O	Not used. (Open)
18 to 20	NCO	O	Not used. (Open)
21, 22	NCO	O	Not used. (Open)
23	VCC5	—	Power supply (+3.3V)
24	EEP_SIO	I/O	EEPROM bus serial data input/output
25	EEP_CKO	O	EEPROM bus serial clock output
26	AMPSTB	O	Power AMP standby signal output
27	LCD_CE	O	LCD driver chip enable signal output
28	LCD_SO	O	LCD driver serial data signal output
29	LCD_SCK	O	LCD driver serial clock signal output
30	RDS ON	O	RDS ON signal output Not used in this set. (Open)
31	RE-IN0	I	Rotary encoder signal input 0
32	RE-IN1	I	Rotary encoder signal input 1
33	I2C_CKO	O	I2C bus serial clock signal output
34	I2C_SIO	I/O	I2C bus serial data signal input/output
35	DAVDD	—	A/D converter power supply (+3.3V)
36	AVRH	—	A/D converter external reference power supply (+3.3V)
37	DAVSS	—	A/D converter Ground
38	QUALITY	I	Noise detect signal input
39	VSM	I	S-meter voltage detect signal input
40	KEYIN1	I	Key signal input 1
41	KEYIN0	I	Key signal input 0
42	VSS	—	Ground
43	RC_IN0	I	Rotary commander key signal input Not used in this set. (Pull up)
44 to 48	NCO	O	Not used. (Open)
49	MD0	I	Operation mode setting pin (Pull up)
50	MD1	I	Operation mode setting pin (Pull up)
51	MD2	I	Operation mode setting pin (Pull down)
52	KEYACK	I	Key acknowledgment detect signal input
53	TU_ATTIN	I	Tuner mute zero cross detect signal input Not used in this set. (Pull down)
54	BUIN	I	Back-up power supply detect signal input
55	NCO	O	Not used. (Open)
56	DAVN	I	RDS data block synchronized detect signal input Not used in this set. (Pull down)

Pin No.	Pin Name	I/O	Pin Description
57	NCO	O	Not used. (Open)
58	UNISI	I	S-BUS data signal input
59	UNISO	O	S-BUS data signal output
60	UNISCK	O	S-BUS clock signal output
61	CODEC_SEL	I	Codec select signal input (H: MP3, L: non-MP3)
62	KEYSEL	I	6key/8key distinction signal input (H: 8key, L: 6key)
63	NCO	O	Not used. (Open)
64	SIRCS	I	Remote control signal input
65 to 67	NCO	O	Not used. (Open)
68	FLASH_W	I	Memory mode select signal input Not used in this set. (Pull up)
69, 70	NCO	O	Not used. (Open)
71	$\overline{\text{RC\_IN1}}$	I	Rotary commander shift key signal input Not used in this set. (Pull up)
72	$\overline{\text{ACC\_IN}}$	I	Accessory power supply detect signal input
73	$\overline{\text{TESTIN}}$	I	Test mode detect signal input
74	TELATT	I	Telephone attenuate detect signal input Not used in this set. (Pull down)
75	NCO	O	Not used. (Open)
76	$\overline{\text{AD\_ON}}$	O	A/D converter power supply control signal output
77	$\overline{\text{RESET}}$	I	System reset signal input
78	NCO	O	Not used. (Open)
79	XOUT	O	Sub clock signal output (32.768kHz)
80	XIN	I	Sub clock signal input (32.768kHz)
81	VSS1	—	Ground
82	OSCIN	I	Main clock signal input (18.432kHz)
83	OSCOUT	O	Main clock signal output (18.432kHz)
84	VCC3	—	Power supply (+3.3 V)
85	DEMOSEL	I	DEMO select signal input (H: DEMO on, L: DEMO off)
86	ATT	O	Audio mute control signal output
87	$\overline{\text{BUSON}}$	O	BUS ON signal output
88	$\overline{\text{SYSRST}}$	O	System reset signal output
89	NCO	O	Not used. (Open)
90, 91	NCO	O	Not used. (Open)
92	NCO	O	Not used. (Open)
93	Z-MUTE	I	CD zero cross mute detect signal input
94, 95	NCO	O	Not used. (Open)
96	MO-DISP	I	Motion display select signal input (H: Motion display on, L: Motion display off)
97	DIM_SEL	I	Dimmer select signal input Not used in this set. (Pull down)
98	CD_ON	I	CD mechanism servo power control request signal input
99	CDM_ON	I	CD mechanism deck power control request signal input
100	COL_SW	I	Illumination color select signal input Not used in this set. (Pull down)

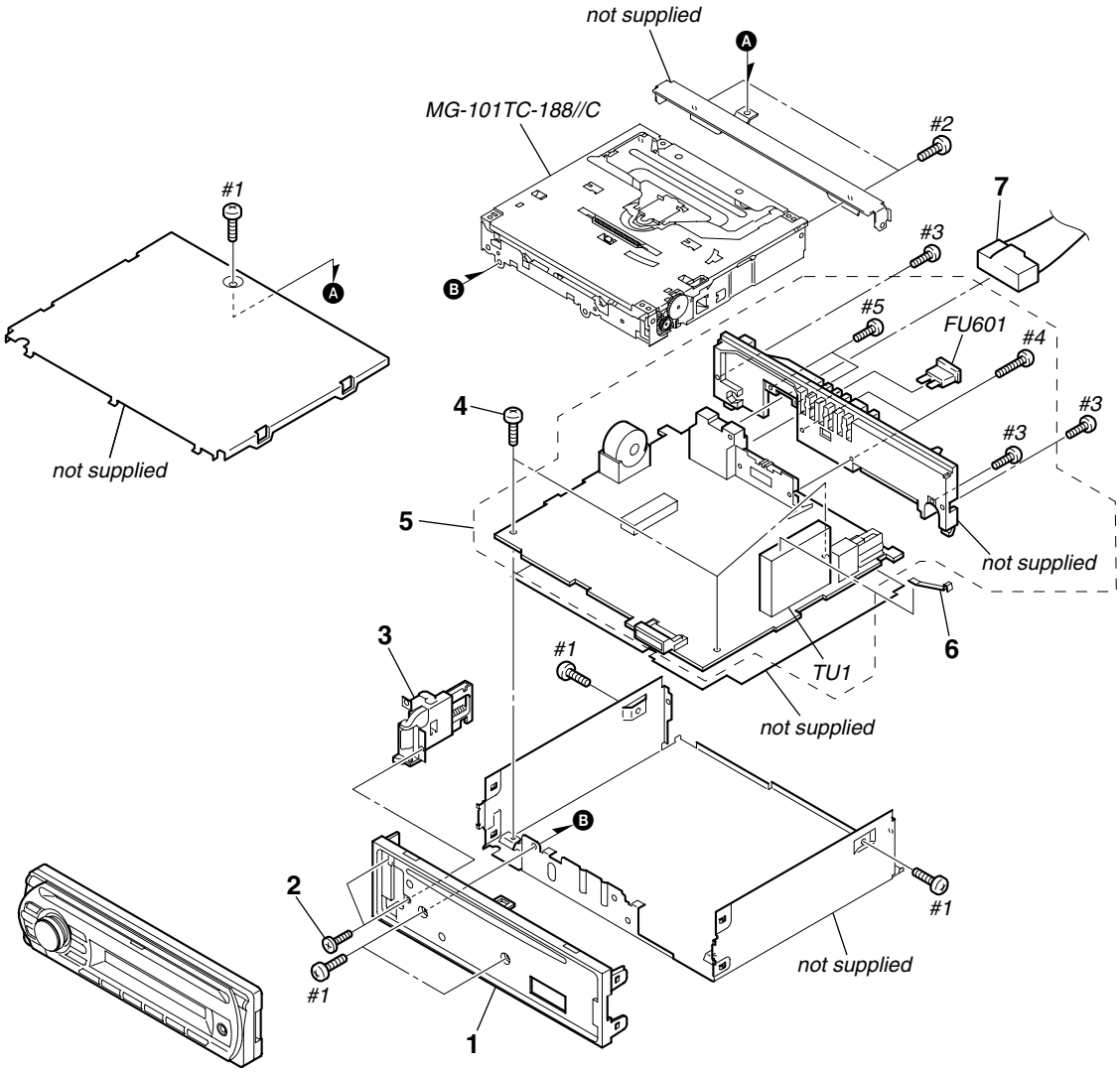
SECTION 6
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

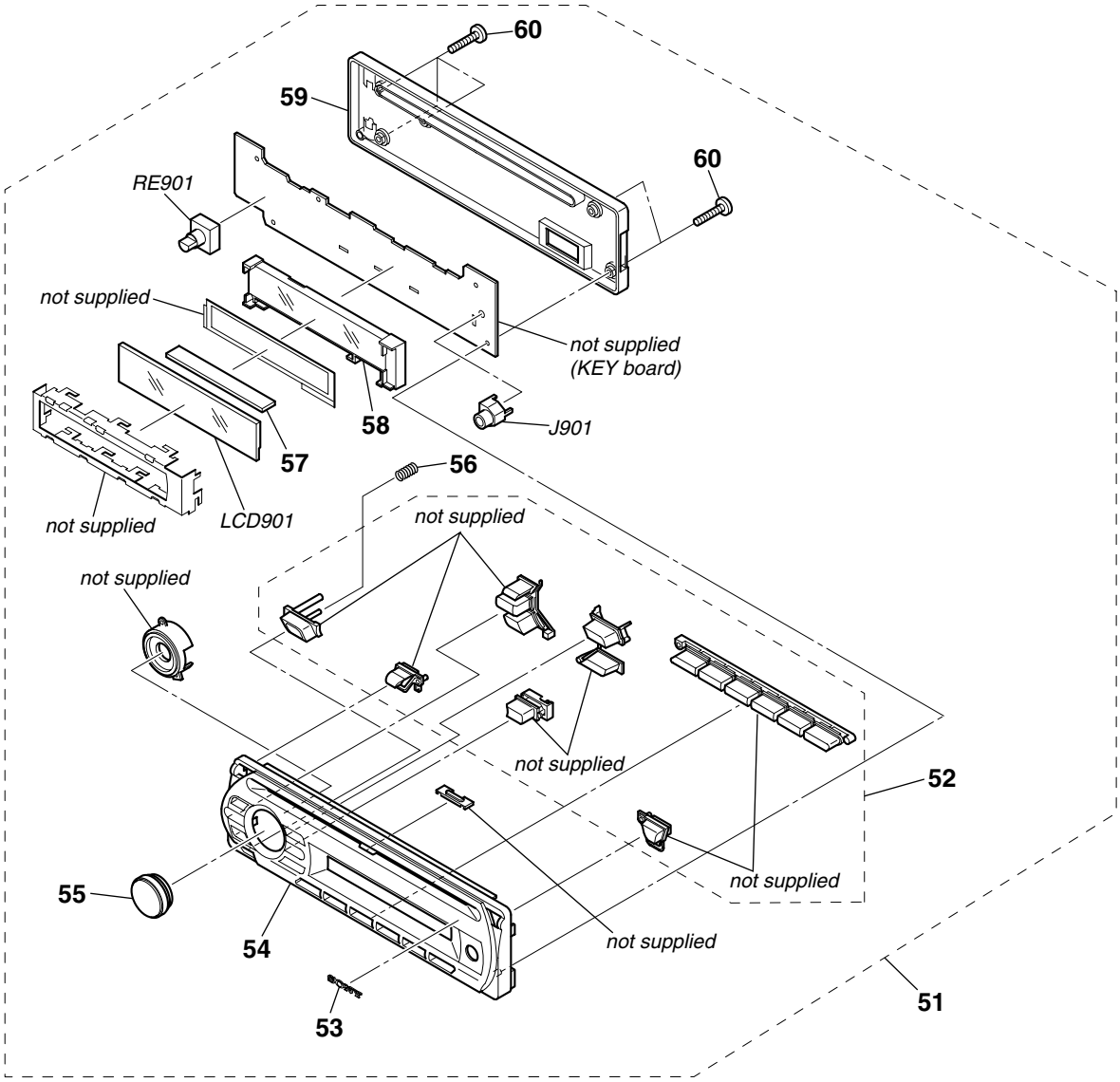
6-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-2148-752-1	PANEL (LCD) ASSY, SUB	
2	2-583-939-01	SCREW (+B 2X4)	
3	X-2148-837-3	LOCK ASSY	
4	2-583-940-01	SCREW (+BTT)	
5	A-1313-267-A	MAIN BOARD, COMPLETE	
6	2-345-298-01	PLATE (TU), GROUND	
7	1-833-973-31	CONNECTION CODE FOR AUTOMOBILE (POWER)	

Ref. No.	Part No.	Description	Remark
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU1	A-3220-961-B	TUNER UNIT (TUX-032)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-790-01	SCREW +PTT 2.6X4 (S)	
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#4	7-685-795-09	SCREW +PTT 2.6X12 (S)	
#5	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	

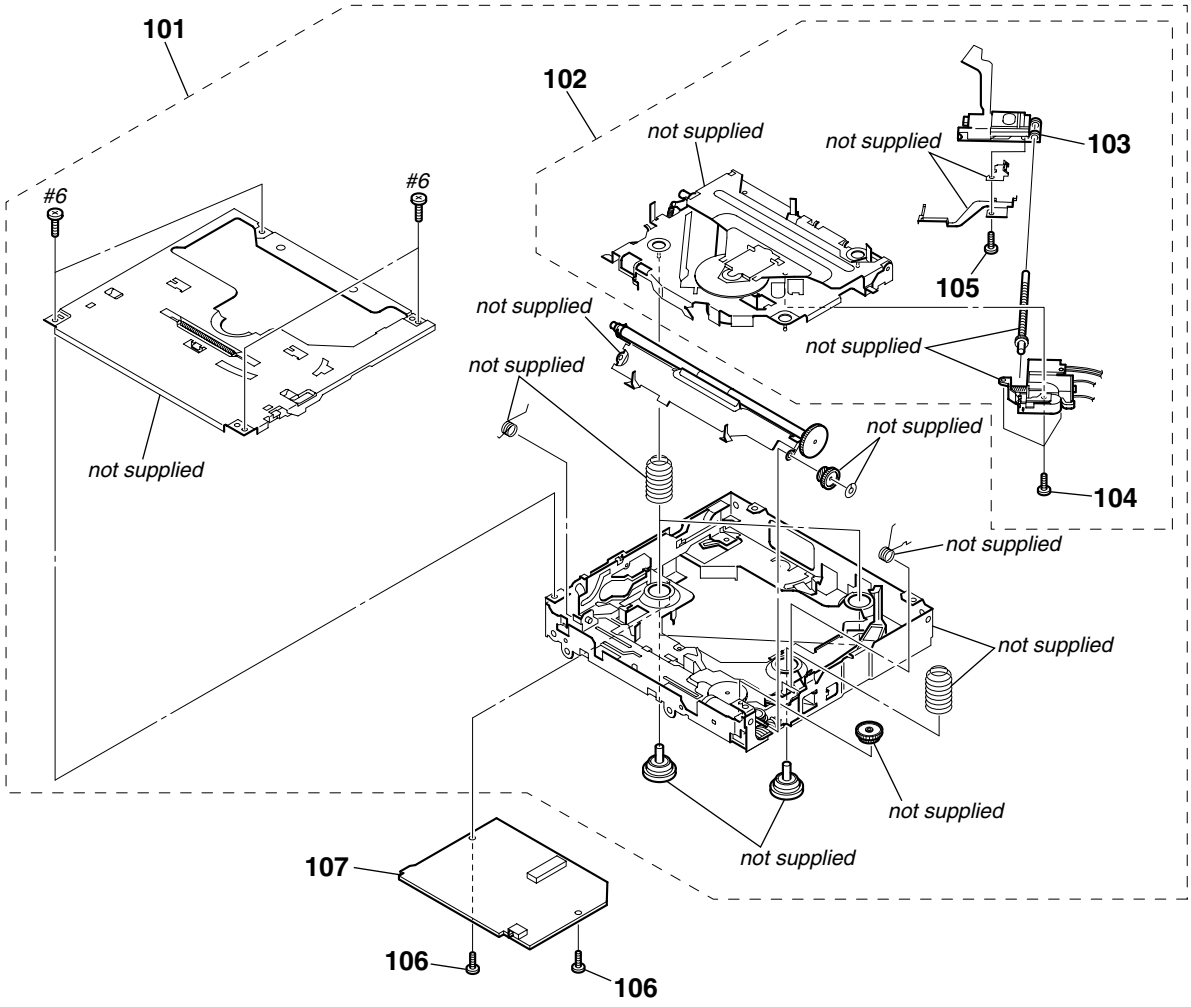
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	A-1313-269-A	PANEL COMPLETE ASSY, FRONT	
52	X-2148-894-1	BUTTON ASSY (S)	
53	3-251-320-01	EMBLEM (NO. 2.5), SONY	
54	X-2179-596-1	PANEL SUB ASSY, FRONT	
55	X-2148-893-1	KNOB (VOL) (SV) ASSY	
56	2-693-726-01	SPRING (RELEASE)	
57	1-780-433-21	CONDUCTIVE BOARD, CONNECTION	

Ref. No.	Part No.	Description	Remark
58	X-2148-892-1	HOLDER (LCD) ASSY	
59	2-683-832-01	PANEL (LCD), BACK	
60	3-250-543-91	SCREW (+B P-TITE M2)	
J901	1-821-473-11	JACK, SMALL TYPE VERTICAL (AUX)	
LCD901	1-802-232-11	DISPLAY PANEL, LIQUID CRYSTAL	
RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT (VOLUME))	

6-3. CD MECHANISM SECTION (MG-101TC-188//C)



Ref. No.	Part No.	Description	Remark
101	A-1283-704-A	MECHANICAL BLOCK ASSY (08)	
102	A-1283-705-A	DAXEV08//C	
⚠103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
104	2-626-869-21	SCREW (M2X3), SERRATION	
105	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
106	3-352-758-31	SCREW (M1.7X2.5), TOOTHED LOCK	
107	A-1201-631-A	SERVO BOARD, COMPLETE	
#6	7-627-000-00	SCREW, PRECISION +P1.7X2.2TYPE3	

KEY

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
		KEY BOARD			
		**********			
	1-780-433-21	CONDUCTIVE BOARD, CONNECTION			
		< CAPACITOR >			
C971	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C981	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C983	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C984	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C985	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C986	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C987	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN901	1-819-758-12	PLUG, CONNECTOR 15P			
		< DIODE >			
D903	6-501-180-01	DIODE UDZW-TE17-18B			
D981	6-501-167-01	DIODE UDZW-TE17-5.1B			
D982	6-501-193-01	DIODE 1SS355WTE-17			
D991	8-719-978-33	DIODE DTZ-TT11-6.8B			
D992	8-719-978-33	DIODE DTZ-TT11-6.8B			
D993	8-719-978-33	DIODE DTZ-TT11-6.8B			
D994	8-719-978-33	DIODE DTZ-TT11-6.8B			
		< JUMPER RESISTOR >			
FB901	1-216-864-11	SHORT CHIP	0		
FB902	1-216-864-11	SHORT CHIP	0		
FB903	1-216-295-11	SHORT CHIP	0		
		< IC >			
IC901	6-710-047-01	IC LC75836WH-US-E			
IC971	6-600-163-01	IC RS-770 (IR)			
		< LIQUID CRYSTAL DISPLAY >			
LCD901	1-802-232-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< DIODE >			
LED861	8-719-078-21	LED SML-310PTT86 (⏏)			
LED862	1-216-811-11	METAL CHIP	150	5%	1/10W
LED863	8-719-078-21	LED SML-310PTT86 (OFF)			
LED864	8-719-078-21	LED SML-310PTT86 (SOURCE)			
LED865	8-719-078-21	LED SML-310PTT86 (MODE)			

Ref. No.	Part No.	Description			Remark
LED931	6-501-339-01	LED NESW505CT-AST (LCD BACK LIGHT)			
		< SWITCH >			
LSW901	1-786-806-12	SWITCH, TACTILE (WITH LED) (EQ)			
LSW902	1-786-806-12	SWITCH, TACTILE (WITH LED) (DSPL/DIM)			
LSW903	1-786-806-12	SWITCH, TACTILE (WITH LED) (▶▶ ▶▶I/SEEK+)			
LSW904	1-786-806-12	SWITCH, TACTILE (WITH LED) (I◀◀ ◀◀/SEEK–)			
LSW905	1-786-806-12	SWITCH, TACTILE (WITH LED) (1/ALBM –)			
LSW906	1-786-806-12	SWITCH, TACTILE (WITH LED) (2/ALBM +)			
LSW907	1-786-806-12	SWITCH, TACTILE (WITH LED) (3/REP)			
LSW908	1-786-806-12	SWITCH, TACTILE (WITH LED) (4/SHUF)			
LSW909	1-786-806-12	SWITCH, TACTILE (WITH LED) (5)			
LSW910	1-786-806-12	SWITCH, TACTILE (WITH LED) (6/PAUSE)			
		< TRANSISTOR >			
Q931	8-729-027-44	TRANSISTOR DTC114TKA-T146			
Q932	6-551-444-01	TRANSISTOR RT1N436C-TP-1			
		< RESISTOR >			
R861	1-216-810-11	METAL CHIP	120	5%	1/10W
R862	1-216-810-11	METAL CHIP	120	5%	1/10W
R865	1-216-811-11	METAL CHIP	150	5%	1/10W
R866	1-216-810-11	METAL CHIP	120	5%	1/10W
R901	1-216-820-11	METAL CHIP	820	5%	1/10W
R902	1-216-821-11	METAL CHIP	1K	5%	1/10W
R903	1-216-821-11	METAL CHIP	1K	5%	1/10W
R904	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R905	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R907	1-216-820-11	METAL CHIP	820	5%	1/10W
R908	1-216-821-11	METAL CHIP	1K	5%	1/10W
R909	1-216-821-11	METAL CHIP	1K	5%	1/10W
R910	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R911	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R912	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R913	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R914	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R921	1-216-295-11	SHORT CHIP	0		
R922	1-216-295-11	SHORT CHIP	0		
R931	1-216-812-11	METAL CHIP	180	5%	1/10W
R932	1-216-812-11	METAL CHIP	180	5%	1/10W
R933	1-216-812-11	METAL CHIP	180	5%	1/10W
R934	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R943	1-216-811-11	METAL CHIP	150	5%	1/10W

Ref. No.	Part No.	Description			Remark
R944	1-216-810-11	METAL CHIP	120	5%	1/10W
R947	1-216-811-11	METAL CHIP	150	5%	1/10W
R948	1-216-810-11	METAL CHIP	120	5%	1/10W
R949	1-216-807-11	METAL CHIP	68	5%	1/10W
R950	1-216-807-11	METAL CHIP	68	5%	1/10W
R951	1-216-807-11	METAL CHIP	68	5%	1/10W
R952	1-216-807-11	METAL CHIP	68	5%	1/10W
R974	1-216-809-11	METAL CHIP	100	5%	1/10W
R975	1-216-809-11	METAL CHIP	100	5%	1/10W
R977	1-216-809-11	METAL CHIP	100	5%	1/10W
R978	1-216-809-11	METAL CHIP	100	5%	1/10W
R979	1-216-809-11	METAL CHIP	100	5%	1/10W
R981	1-216-811-11	METAL CHIP	150	5%	1/10W
R982	1-216-811-11	METAL CHIP	150	5%	1/10W
R984	1-216-821-11	METAL CHIP	1K	5%	1/10W
R985	1-216-821-11	METAL CHIP	1K	5%	1/10W
R986	1-216-821-11	METAL CHIP	1K	5%	1/10W
R987	1-216-857-11	METAL CHIP	1M	5%	1/10W
R988	1-216-840-11	METAL CHIP	39K	5%	1/10W
R992	1-216-864-11	SHORT CHIP	0		
R993	1-216-864-11	SHORT CHIP	0		
		< ROTARY ENCODER >			
RE901	1-479-902-11	ENCODER, ROTARY (PUSH SELECT (VOLUME))			
		< SWITCH >			
S901	1-786-653-11	SWITCH, TACTILE (⏏)			
S902	1-786-653-11	SWITCH, TACTILE (OFF)			
S903	1-786-653-11	SWITCH, TACTILE (SOURCE)			
S904	1-786-653-11	SWITCH, TACTILE (MODE)			
**********					
	A-1313-267-A	MAIN BOARD, COMPLETE			
		**********			
	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
		< CAPACITOR >			
C4	1-126-947-11	ELECT	47uF	20%	35V
C5	1-126-947-11	ELECT	47uF	20%	35V
C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C7	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C12	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C13	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C301	1-124-248-00	ELECT	22uF	20%	25V
C302	1-124-584-00	ELECT	100uF	20%	10V
C305	1-124-584-00	ELECT	100uF	20%	10V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C308	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C309	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C310	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C312	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C343	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C401	1-126-964-11	ELECT	10uF	20%	50V
C404	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C405	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C406	1-126-160-11	ELECT	1uF	20%	50V
C407	1-126-160-11	ELECT	1uF	20%	50V
C412	1-126-934-11	ELECT	220uF	20%	16V
C413	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C422	1-216-864-11	SHORT CHIP	0		
C423	1-216-864-11	SHORT CHIP	0		
C431	1-126-964-11	ELECT	10uF	20%	50V
C432	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C435	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C441	1-126-964-11	ELECT	10uF	20%	50V
C442	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C445	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C451	1-126-964-11	ELECT	10uF	20%	50V
C452	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C455	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C461	1-126-964-11	ELECT	10uF	20%	50V
C462	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C465	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C479	1-124-589-11	ELECT	47uF	20%	16V
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C503	1-124-584-00	ELECT	100uF	20%	10V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C507	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C508	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C509	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C510	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C511	1-124-584-00	ELECT	100uF	20%	10V
C512	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C514	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C516	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C522	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C523	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C601	1-131-868-81	ELECT	3300uF	20%	16V
C602	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C617	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C622	1-126-916-11	ELECT	1000uF	20%	6.3V
C623	1-126-916-11	ELECT	1000uF	20%	6.3V
C631	1-126-160-11	ELECT	1uF	20%	50V
C750	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C751	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C753	1-128-551-11	ELECT	22uF	20%	63V
C754	1-124-257-00	ELECT	2.2uF	20%	50V
C755	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C756	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C758	1-124-261-00	ELECT	10uF	20%	50V
C763	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C764	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C765	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C769	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C770	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C771	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C774	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C775	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V
C776	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C901	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C902	1-109-982-11	CERAMIC CHIP	1uF	10%	10V

MAIN

Ref. No.	Part No.	Description			Remark
C903	1-126-961-11	ELECT	2.2uF	20%	50V
C905	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C917	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C918	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
		< CONNECTOR >			
CN601	1-774-701-21	PIN, CONNECTOR 16P			
CN701	1-819-773-13	SOCKET, CONNECTOR 15P			
CNP301	1-820-611-11	CONNECTOR, BOARD TO BOARD 28P			
		< DIODE >			
D1	6-501-168-01	DIODE UDZW-TE17-5.6B			
D479	6-501-193-01	DIODE 1SS355WTE-17			
D502	8-719-060-48	DIODE RB751V-40TE-17			
D503	6-501-193-01	DIODE 1SS355WTE-17			
D510	6-501-656-01	DIODE LBAT54ALT1G			
D511	6-500-335-01	DIODE MC2838-T112-1			
D512	6-501-654-01	DIODE LBAT54CLT1G			
D580	6-501-171-01	DIODE UDZW-TE17-7.5B			
D581	6-501-180-01	DIODE UDZW-TE17-18B			
D601	6-501-571-01	DIODE 1N5404-C311-3			
D609	6-501-170-01	DIODE UDZW-TE17-6.8B			
D617	6-501-180-01	DIODE UDZW-TE17-18B			
D704	6-501-170-01	DIODE UDZW-TE17-6.8B			
D719	6-501-180-01	DIODE UDZW-TE17-18B			
D751	6-501-362-01	DIODE 1A4-TA26			
D752	6-501-362-01	DIODE 1A4-TA26			
D753	6-501-362-01	DIODE 1A4-TA26			
D754	6-501-362-01	DIODE 1A4-TA26			
D755	6-501-362-01	DIODE 1A4-TA26			
D756	6-501-362-01	DIODE 1A4-TA26			
D757	6-501-362-01	DIODE 1A4-TA26			
D758	6-501-362-01	DIODE 1A4-TA26			
D760	6-501-362-01	DIODE 1A4-TA26			
D762	6-501-362-01	DIODE 1A4-TA26			
D903	6-501-170-01	DIODE UDZW-TE17-6.8B			
		< FERRITE BEAD >			
FB1	1-500-245-11	INDUCTOR, FERRITE BEAD			
FB302	1-216-864-11	SHORT CHIP	0		
FB303	1-216-864-11	SHORT CHIP	0		
FB304	1-216-295-11	SHORT CHIP	0		
FB305	1-216-295-11	SHORT CHIP	0		
FB307	1-216-864-11	SHORT CHIP	0		
FB308	1-216-295-11	SHORT CHIP	0		
FB309	1-216-864-11	SHORT CHIP	0		
FB310	1-216-864-11	SHORT CHIP	0		
FB501	1-216-295-11	SHORT CHIP	0		
FB604	1-500-245-11	INDUCTOR, FERRITE BEAD			
FB605	1-216-864-11	SHORT CHIP	0		
FB606	1-216-864-11	SHORT CHIP	0		
		< FUSE >			
FU601	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
		< IC >			
IC401	6-710-048-01	IC BD3444FS-E2			
IC501	6-807-772-01	IC MB90488BPF-G-232E1			
IC602	6-709-458-01	IC XC61CN2802NR			
IC750	6-705-363-02	IC TDA8589BJ/N2/R1			
IC901	8-759-681-42	IC NJM12902V(TE2)			
		< JACK >			
J1	1-815-185-13	JACK (ANTENNA)			
		< JUMPER RESISTOR >			
JC1	1-216-864-11	SHORT CHIP	0		
JC501	1-216-864-11	SHORT CHIP	0		
JC504	1-216-864-11	SHORT CHIP	0		
JC527	1-216-821-11	METAL CHIP	1K	5%	1/10W
JC533	1-216-864-11	SHORT CHIP	0		
JC681	1-216-864-11	SHORT CHIP	0		
JC753	1-216-296-11	SHORT CHIP	0		
JC754	1-216-296-11	SHORT CHIP	0		
JC755	1-216-296-11	SHORT CHIP	0		
JC756	1-216-864-11	SHORT CHIP	0		
JC795	1-216-864-11	SHORT CHIP	0		
JC796	1-216-864-11	SHORT CHIP	0		
		< RESISTOR >			
JW52	1-249-425-11	CARBON	4.7K	5%	1/4W
		< COIL >			
L1	1-469-844-11	INDUCTOR	2.2uH		
L301	1-216-295-11	SHORT CHIP	0		
L501	1-216-295-11	SHORT CHIP	0		
L601	1-456-617-11	COIL, CHOKE			
		< TRANSISTOR >			
Q1	6-551-431-01	TRANSISTOR 2SC6027T100-QR			
Q431	8-729-027-44	TRANSISTOR DTC114TKA-T146			
Q441	8-729-027-44	TRANSISTOR DTC114TKA-T146			
Q451	8-729-027-44	TRANSISTOR DTC114TKA-T146			
Q461	8-729-027-44	TRANSISTOR DTC114TKA-T146			
Q478	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q479	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q580	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q581	8-729-038-28	TRANSISTOR RT1N441C-TP-1			
Q582	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q631	8-729-620-07	TRANSISTOR 2SC3052EF-T1-LEF			
Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146			
		< RESISTOR >			
R1	1-216-821-11	METAL CHIP	1K	5%	1/10W
R2	1-414-595-11	INDUCTOR, FERRITE BEAD			
R3	1-414-595-11	INDUCTOR, FERRITE BEAD			
R4	1-216-839-11	METAL CHIP	33K	5%	1/10W
R5	1-216-843-11	METAL CHIP	68K	5%	1/10W
R8	1-216-839-11	METAL CHIP	33K	5%	1/10W
R9	1-216-843-11	METAL CHIP	68K	5%	1/10W
R12	1-414-595-11	INDUCTOR, FERRITE BEAD			
R13	1-414-595-11	INDUCTOR, FERRITE BEAD			
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-821-11	METAL CHIP	1K	5%	1/10W
R401	1-216-797-11	METAL CHIP	10	5%	1/10W

Ref. No.	Part No.	Description			Remark
R402	1-216-864-11	SHORT CHIP	0		
R403	1-216-864-11	SHORT CHIP	0		
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-821-11	METAL CHIP	1K	5%	1/10W
R432	1-216-833-11	METAL CHIP	10K	5%	1/10W
R441	1-216-821-11	METAL CHIP	1K	5%	1/10W
R442	1-216-833-11	METAL CHIP	10K	5%	1/10W
R451	1-216-821-11	METAL CHIP	1K	5%	1/10W
R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R461	1-216-821-11	METAL CHIP	1K	5%	1/10W
R462	1-216-833-11	METAL CHIP	10K	5%	1/10W
R479	1-216-805-11	METAL CHIP	47	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/10W
R503	1-216-821-11	METAL CHIP	1K	5%	1/10W
R504	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R505	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R506	1-216-845-11	METAL CHIP	100K	5%	1/10W
R507	1-216-845-11	METAL CHIP	100K	5%	1/10W
R508	1-216-864-11	SHORT CHIP	0		
R509	1-216-812-11	METAL CHIP	180	5%	1/10W
R510	1-216-821-11	METAL CHIP	1K	5%	1/10W
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
R512	1-216-821-11	METAL CHIP	1K	5%	1/10W
R513	1-216-845-11	METAL CHIP	100K	5%	1/10W
R514	1-216-845-11	METAL CHIP	100K	5%	1/10W
R517	1-216-841-11	METAL CHIP	47K	5%	1/10W
R518	1-216-864-11	SHORT CHIP	0		
R519	1-216-845-11	METAL CHIP	100K	5%	1/10W
R521	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R522	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R524	1-216-845-11	METAL CHIP	100K	5%	1/10W
R526	1-216-845-11	METAL CHIP	100K	5%	1/10W
R527	1-216-845-11	METAL CHIP	100K	5%	1/10W
R528	1-216-845-11	METAL CHIP	100K	5%	1/10W
R529	1-216-821-11	METAL CHIP	1K	5%	1/10W
R531	1-216-845-11	METAL CHIP	100K	5%	1/10W
R532	1-216-845-11	METAL CHIP	100K	5%	1/10W
R533	1-216-845-11	METAL CHIP	100K	5%	1/10W
R534	1-216-833-11	METAL CHIP	10K	5%	1/10W
R535	1-216-833-11	METAL CHIP	10K	5%	1/10W
R536	1-216-833-11	METAL CHIP	10K	5%	1/10W
R538	1-216-845-11	METAL CHIP	100K	5%	1/10W
R539	1-216-845-11	METAL CHIP	100K	5%	1/10W
R540	1-216-845-11	METAL CHIP	100K	5%	1/10W
R541	1-216-845-11	METAL CHIP	100K	5%	1/10W
R542	1-216-864-11	SHORT CHIP	0		
R543	1-216-821-11	METAL CHIP	1K	5%	1/10W
R544	1-216-821-11	METAL CHIP	1K	5%	1/10W
R547	1-216-864-11	SHORT CHIP	0		
R550	1-216-845-11	METAL CHIP	100K	5%	1/10W
R551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R556	1-216-833-11	METAL CHIP	10K	5%	1/10W
R557	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W
R563	1-216-845-11	METAL CHIP	100K	5%	1/10W
R565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R566	1-216-845-11	METAL CHIP	100K	5%	1/10W
R567	1-216-845-11	METAL CHIP	100K	5%	1/10W
R568	1-216-821-11	METAL CHIP	1K	5%	1/10W
R570	1-216-817-11	METAL CHIP	470	5%	1/10W
R575	1-216-845-11	METAL CHIP	100K	5%	1/10W
R577	1-216-845-11	METAL CHIP	100K	5%	1/10W
R578	1-216-821-11	METAL CHIP	1K	5%	1/10W
R582	1-216-821-11	METAL CHIP	1K	5%	1/10W
R583	1-216-821-11	METAL CHIP	1K	5%	1/10W
R584	1-216-841-11	METAL CHIP	47K	5%	1/10W
R585	1-216-849-11	METAL CHIP	220K	5%	1/10W
R601	1-216-845-11	METAL CHIP	100K	5%	1/10W
R609	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R631	1-249-425-11	CARBON	4.7K	5%	1/4W
R632	1-216-841-11	METAL CHIP	47K	5%	1/10W
R633	1-216-841-11	METAL CHIP	47K	5%	1/10W
R634	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R636	1-216-845-11	METAL CHIP	100K	5%	1/10W
R661	1-216-821-11	METAL CHIP	1K	5%	1/10W
R662	1-216-833-11	METAL CHIP	10K	5%	1/10W
R663	1-216-821-11	METAL CHIP	1K	5%	1/10W
R664	1-216-833-11	METAL CHIP	10K	5%	1/10W
R671	1-216-809-11	METAL CHIP	100	5%	1/10W
R672	1-216-809-11	METAL CHIP	100	5%	1/10W
R673	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R674	1-216-845-11	METAL CHIP	100K	5%	1/10W
R675	1-216-821-11	METAL CHIP	1K	5%	1/10W
R676	1-216-821-11	METAL CHIP	1K	5%	1/10W
R677	1-216-821-11	METAL CHIP	1K	5%	1/10W
R679	1-216-821-11	METAL CHIP	1K	5%	1/10W
R681	1-216-864-11	SHORT CHIP	0		
R690	1-216-845-11	METAL CHIP	100K	5%	1/10W
R692	1-216-845-11	METAL CHIP	100K	5%	1/10W
R752	1-216-811-11	METAL CHIP	150	5%	1/10W
R756	1-216-841-11	METAL CHIP	47K	5%	1/10W
R757	1-216-864-11	SHORT CHIP	0		
R901	1-216-817-11	METAL CHIP	470	5%	1/10W
R902	1-216-817-11	METAL CHIP	470	5%	1/10W
R903	1-216-834-11	METAL CHIP	12K	5%	1/10W
R904	1-216-834-11	METAL CHIP	12K	5%	1/10W
R905	1-216-841-11	METAL CHIP	47K	5%	1/10W
R906	1-216-841-11	METAL CHIP	47K	5%	1/10W
R907	1-216-845-11	METAL CHIP	100K	5%	1/10W
R910	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R911	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R912	1-216-864-11	SHORT CHIP	0		
R913	1-216-864-11	SHORT CHIP	0		
R914	1-216-825-11	METAL CHIP	2.2K	5%	1/10W

< TUNER UNIT >

TU1	A-3220-961-B	TUNER UNIT (TUX-032)	

< VIBRATOR >

X501	1-813-524-21	VIBRATOR, CERAMIC (18.432MHz)	
X502	1-813-202-11	VIBRATOR, CRYSTAL (32.678kHz)	

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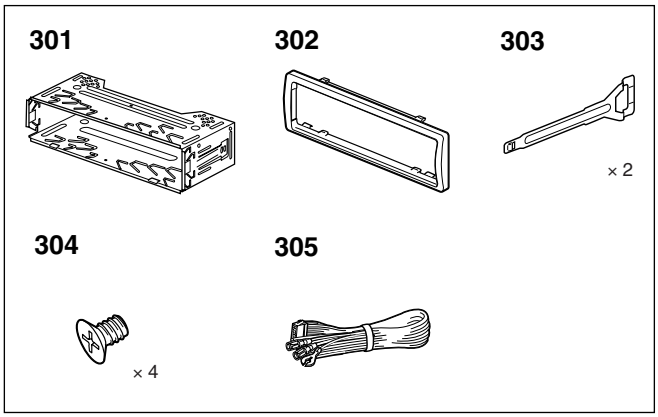
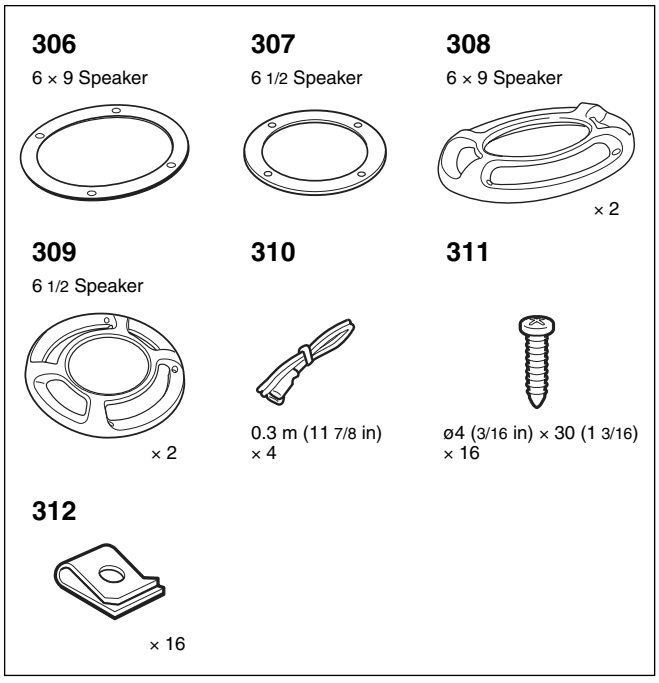
SERVO

Ref. No.	Part No.	Description	Remark
	A-1201-631-A	SERVO BOARD, COMPLETE	
		**********	
**********			
		MISCELLANEOUS	
		**********	
7	1-833-973-31	CONNECTION CODE FOR AUTOMOBILE	(POWER)
⚠103	X-2149-672-1	SERVICE ASSY, OP (DAX-25A)	
J901	1-821-473-11	JACK, SMALL TYPE VERTICAL (AUX)	
**********			
		ACCESSORIES	
		**********	
	1-479-077-13	REMOTE COMMANDER (RM-X151)	
	1-826-514-11	SPEAKER (6X9 in.)	
	1-826-515-11	SPEAKER (6 1/2 in.)	
	1-828-479-41	CORD, CONNECTION 2P (BLACK:1m)	
	2-548-729-01	LID, BATTERY CASE (for RM-X151)	
	3-268-127-11	MANUAL, INSTRUCTION (ENGLISH,SPANISH)	(CDX-GT07)
	3-268-128-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH,	SPANISH) (CXS-GT07HP)
**********			

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
301	X-3382-647-1	FRAME ASSY, FITTING	
302	2-686-802-01	COLLAR	
303	3-246-011-01	KEY (FRAME)	
304	3-259-776-01	SCREW (+K 5X8 TP)	
305	1-833-973-31	CONNECTION CODE FOR AUTOMOBILE	(POWER)
306	2-886-394-01	TEMPLATE (for 6X9 in.)	
307	2-886-389-01	TEMPLATE (for 6 1/2 in.)	
308	2-886-393-01	GRILLE (for 6X9 in.)	
309	2-886-388-01	GRILLE (for 6 1/2 in.)	
310	1-824-847-11	CORD, SPEAKER CONNECTION (0.3m)	
311	3-240-189-11	SCREW, SPECIAL	
312	2-585-058-01	NUT, SPEED	





MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the top of the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2007.07	New